1.

our Angle End

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS

David Dunlop Observatory

74" Logbook

Volume 3

Plate No. 1512 – 2301

November 1936 - August 1937

5.

1936

Date Nov 29-30 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
~~1512~~	~~HD 217731~~	~~22 57.6~~	~~44 02~~	~~I-12~~	~~Agfa II~~	Set .010	~~-4.5~~	6 03		2	
1512	HD 88155	01 21.8	+29 16	I 12	"	010	-4.5	8 02	10 02	3	0 56 W
1513	HD 21062	03 18.8	+28 18	"	"	"	-4.5	10 07	10 35	4	

These should be
1554+1555

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS					
							clouded.				M Watch	S Watch
2		44 15	0	7.51	Ko	1/2	Nov. 27	12	+15.7	+10.5	+14.6	+05.2
10 02 3	0 56 W	29 26	0	7.52	F2	1/2-1-1 1/2					Added 0.5 to M.T.A.	
10 35 4		28 25	0	6.99	Ao	1/2 1/2	Spots 30^s		Clouded			
							Nov. 30	12	+16.2	+08.2	+34.9	+43.8

7.

1936

Date Monday, Nov 30 - Dec 1 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1514	HD 206155	21 35.1	+08 44	I-12	Astra III	010	set −12.5	5 26	6 26	1	1 11W
1515	221691	23 29.0	+59 29	"	"	"	−12.8	6 33	8 03	2	0 54W
1516	6130	00 57.4	+60 32	"	"	"	−12.8	8 08	8 38	3	0 08E
1517	6210	00 58.1	+61 04	"	"	"	−12.8	8 53/43	9 23	4	0 45W
1518	6475	01 00.7	+59 20/37	"	"	"	−12.8	9 25	10 10	1	1 23W
1519	19536	03 03.5	+60 15	"	"	"	−12.9	10 14	11 24	2	0 41W
1520	31662	04 52.6	+60 59	"	"	"	−12.8	11 30	12 05	3	0 18E
1563	32356	04 57.5	+61 02	"	"	"	−12.9	12 08	1 08	4	0 30W
1564	33618	05 06.4	+59 16	"	"	"	−12.8	1 13	2 18	1	1 31W
	~~52108~~	~~06 57.2~~	~~+59 57~~	"	"	"				2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
h 26 1	1 11 W	+0 8 5 4	0	6.9 V	A0	1½ 1½ 1½	N.B. Temp reads −12.5° thermometer, with parallax. This is really −12.5
9 37 2	0 54 W	+59 43	0	7.41	A0	1½ 1½ 1½	RA clamp not working Motor drawing current, but not enough power. Clamped + unclamped by hand all evening.
5 38 3	0 00 E	+60 45	1	6.22	F0	1½ 1½ 1½	
9 33 4	0 45 W	+61 15	1-2	6.38	F8	1½ 1½ 1½	Slide not drawn till 8 53.
13 10 1	1 29 W	+59 32	1-2	6.78	A0	1½ 1½ 1½	
11 34 2	0 40 W	+60 25	1-2	7.26	A0	1½ 1½ 1½	
12 15 3	0 28 E	+61 00	2-1	6.54	F5	1½ 1½ 1½	
1 08 4	0 30 W	+61 06	1	7.27	K0	1½ 1½ 1½	
2 16 1	1 31 W	+59 20	1	7.36	K0	1½ 1½ 1½	
2				~~7.54~~	K0	1½	got set on star and sky rapidly became blanketted with clouds. started to snow lightly about 3.30. so closed up.

			M Watch	S. Watch
Dec. 1.	12	+16.9 +07.9	+31.1	−08.6 advanced 1m

Schr. Sensitometer 30° on all plates

9.

Date Monday, December 7-8 (8-9) '36 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 1565	HD 206155	21 35.1	+08 44	I-12	Astra II	010	Set -6.5	5 30	7 00	2	2.12W
1566	218235	23 01.3	+17 59	"	"	"	-7.0	7 03	7 53	3	1.39W
1567	1641	00 15.6	+32 25	"	"	"	-7.0	7 57	9 27	4	1.39W
1568	16111	02 30.2	+28 58	"	"	"	-7.0	9 30	10 50	1	1.17W
1569	26015	04 02.0	+14 54	"	"	"	-7.0	10 54	11 24	2	0.39W
1570	28271	04 22.5	+30 09	"	"	"	-6.9	11 28	12 08	3	0.38W
1571	35076	05 17.0	+28 51	"	"	"	-7.0	12 11	12 50	4	
1572	35239	05 18.2	+31 03	"	"	"	-7.0	12 56	1 23	1	0.52W
1573	47270	06 32.7	+44 06	"	"	"	-7.0	1 26	2 15	2	0.30W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS			ΔθM.T.A.	ΔθS.T.A.	ΔθM watch	ΔθS watch
7 00 2	2 12 W	+ 08 55	0!	6.9 V	A0	1½ 1½ 1½	Dec.	2	12	+17·2	+07·4	+47·6	−01·6
7 53 3	1 39 W	+ 18 11	0	6.48	F2	1½ 1½ 1½	Dec.	3	12	+17·3	+06·7	−06·7	+04·5
9 27 4	1 59 W	+ 32 38	0	7.40	F5	1½ 1½ 1½	Dec.	4	12	+17·9	+06·2	Advanced 1m +00·9	+10·8
10 50 1	1 07 W	+ 29 08	0-1	7.05	B8	1½ 1½ 1½	Dec.	5	10	+18·2	+06·0	+04·3	+20·1
11 24 2	0 09 W	+ 15 01	1	6.22	F0	1½ 1½ 1½	Dec.	7	12	+19·1	+04·9	Reset: +02·1	−08·5
12 15 3	0 33 W	+ 30 13	1	6.68	F5	1½ 1½ 1½							
12 50 4		+ 28 53	1-0	6.37	B9	1½ 1½ 1½							
1 25 1	0 52 W	+ 31 06	1-0	5.91	B9	1½ 1½ 1½							
2 15 2	0 30 W	+ 44 05	1-0	7.51	K0	1½ 1½ 1½	Sky filling in from 2.00 on which at 2.15 Cloud up at 3.00						
							Dec.	8	12	+19·8	Reset −17·8	+08·0	−01·8

Tel. Limitations 30° on 1565, 66; 50° thereafter

1936

Date Sunday December 8-9 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1574	HD 224801	23 55.7	+44 42	I - 12½	Astra II	Set 0.10	Set -7.2	6.13	6.59	3	
1575	BD 63° 0110	00 48.6	+63 33	"	" IX	M 0.25	-7.2	7.10		2	
1575	HD. 9100	01 24.5	+17 51	"	Astra II	0.10	-7.2	7.55	8.35	4	
1576	" 9996	01 32.5	+44 54	"	"	"	-7.2	8.39	9.32	1	
1577	" 17891	02 47.3	+46 44	"	"	"	-7.3	9 35	10.17		
	" 26171	04 03.4	+13 08	"	"	"				3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.		REMARKS
		44 55	0-1	6.25	A_{0p}	1½-1½-1½	Spots 50s	Light (Ci:Cu) clouds at sunset.
		~~63 45~~	~~1~~	~~9.60~~		~~¾~~		sky hazy; seeing as with image
	0.01 W	18 03	1	6.02	A_2	1½-1½-1½	" 50s	quite faint diffuse light
	0 50 W	45 06	1-0	6.34	A_0	1½-1½-1½	" 50s	wind springing up, seeing becoming unstable
	0.20 W	46 55	0	6.71	B_9	1½-1½	" 50s	sky beginning to fill in at 10.10
				6.00	B_9			

				m Watch	s Watch
Dec. 9	12	+20.8	-17.6	+15.5	+08.0
Dec. 10	12	+21.0	-18.2	+22.0	+15.3
Dec. 11	12	+21.3	-18.7	+28.5	+26.1
Dec. 12	12	+21.8	-18.6	+35.0	+36.4

Date Saturday December 12-13, 1936 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1578	HD 35076	05 17.0	+28 51	I-12	Astra II	0.10	-1.3	12 15	1 25	3	
1579	Same Field			"	"	"	-1.3			4	
	60335	07 28.9	+43 15	"	"	"	-1.3	1 33	2 48	4	
1580	63630	07 44.8	+46 12	"	"	"	-1.2	2 51	4 11	1	
1581	80654	09 15.9	+13 33	"	"	"	-1.3	4 17	5 47	2	
1582	100912	11 32.2	+45 17	"	"	"	-1.4	5 51	6 51	3	

Clouds all day, and evening.

Ensuing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 15W	+ 2° 53	D	6.37 B9	½ ½ ½ Looking [illegible]	
	outside through town				12°, 7°	
	0 27W	+ 42 11	0	6.58 F0	½ ½ ½	Plates 1578-9-80-11 will [illegible]
	1 34W	+ 46 07	0	6.61 A3	½ ½ ½	be fogged due to my stupid [illegible] of
	1 40W	+ 13 24	0	7.00 F5-	½ ½ ½	leaving off cover of plate box and
	0 27W	+ 45 04	0	6.56 B9	½ ½ ½	switching on dark room light.
						Lagrosit

15.

1936

Date Sunday Dec 13-14 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Int
1583	HD 219 291 Fourn last	23 096	+29 18	I-17	ashaII	0.10	-2.0	5 26	6 26	1	
1584	HD 1375	00 12.8	+12 13	"	"	"	-1.8	6 35	8 05	2	
1585	HD 10363	01 36.1	+43 08	"	"	"	-1.7	8 10	9 20	3	
1586	HD 10874	01 41.6	+45 44	"	"	"	-2.0	9 23	10 23	4	
1587	HD 26546	04 06.8	19 02	"	"	"	-2.5	10 29	11 39	1	
1588	HD 36468	05 26.8	43 52	"	"	"	-2.7	11 45	1 05	2	
1589	HD 47914	06 35.8	44 38	"	"	"	-2.3	1 08		3	

Reading Time G.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	26m W	29 26	2	6.84	F5	½ 1½ 1½	
						12-7	
	1 03 W	+12 26	2-1	7.41	G5	1½ 1½ 1½	
	55m W	43 21	1	7 03	A0	½ 1½ 1½	
	1h 53 W	45 57	0-1	6 74	F5	½ 1½ 1½	
	44m W	17 07	1	7 08	G5	½ 1½ 1½	
	0 49 W	43 54	1	7 16	B9	½ 1½ 1½	
		44 36	1	6.35	K5	1½	

Fog suddenly formed between 1.15 and 1.25. closed diaphragm & mirrors and waited At 2.30 fog showed no signs of clearing. Closed up and put on heat.

					M Watch	S Watch
Dec. 14	12	+22·7	-18·6	-13·3	-08·7
		added 0·3		advanced watches 1m

1936

Date Monday December 14-15 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1589	HD 35984	05 23.4	+29 07	I-12	4-t-2 F	010	+0.5	12 25	1 40	4
	3 min int			"	"	010	-0.5	1 40		4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	+23 59	0	6.66 F5	1½ 1½ 1½	Lightfriend focus - :2627 to :2630 (
Outside through focus				12,7	Haze 1[05] — 1[15] Sun invisible. Alt to 50° High.

				M. Watch	S Watch
Dec. 15.	12	+22·8	-18·8	-07·5	-01·6

19.

1936

Date Tuesday Dec 15-16 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
	HD. 3	00 00.0	44 40	I - 12½	Astra II	Set 0.10	Set +3.0	6.07		1	
1590	" 11188	1 44.9	46 58	"	"	"	+3.3	7.45	8.40	2	C.H.
1591	" 16545	2 34.1	43 40	"	"	"	+3.0	8.44	10.04	3	C.H.W.
	" 29487	4 33.5	43 55	"	"	"	+3.0	10.09		4	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	44 53	1-2	6.51	Ao	½-	Opened at 5 00 but had to wait a t
0. 13 W	47 08	2	7.09	B8	½-1½-1½	light clouds cleared off. Filled in solid
0. 48W	43 49	2-1	7 25	Aop	½-1½-1½	again by 6.30 Clearing again at 7.30
	44 00	2-1	7.30	B9	½-	Filling in again. Closed up at 12.25

Heavy mist rolling up from S.W.

				M Watch	S Watch
Dec. 16	13	+22·9	-18·9	-01·2	+06·9
Dec. 17				+0 5	+1·1

1936 Epimeis not here — Cypres

Dec. 18	12	+23·0	-19·1	+10·7	+20·1

Tube sensitive 505 on all plates

21

1936

Date Friday Dec 18-19 Hd- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1592	HD 219675	23 12.6	17 45	I-12	Eastman IV	010	-4.7	5 26	6 32	1	
	Focus			"	"	010	-4.7				
1593	HD 221115	23 24.1	12 13	"	"	"	-4.6	6 37	6 57	2	
1594	2628	00 24.8	29 12	"	"	"	-4.6	7 00	7 20	3	
1595	10638	01 38.7	32 01	"	"	"	-4.6	7 26	9 00	4	
1596	23728	03 42.3	43 39	"	"	"	-4.3	9 05	9 43	1	
1597	26911	04 10.1	15 09	"	"	"	-4.8	9 49	10 40	3	

Tues Dec 22 Hd-L

worked on dome to get it to open

Changed to I-25 Set Focus 23.70

Tilt 23.25

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
W 50m	17 57	0	6.99 F_0	1½, 1½, 1½ setting 4	
Face outside				no filter 4/3 :: 1	
W 1h 03	12 26	0	5.67 K_0	1½ 1½, 1½	
W 25m	29 25	0	5.54 F_0	1½ 1½ 1½	
W 52m	32 14	0	6.86 A_3	1½, 1½, 1½	Clouds.
E 30m	43 47	0	6.14 F_0	1½ 1½ 1½	
OD	15 15	0	6.77 7_3	1½, 3	Thickening Throughout. Image bad +10:30 Closed 11 OD

	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθM.Watch	ΔθS.Watch
Dec. 19,	10	+23·2	+19·1	+18·0	+06·3

Advanced 1m

Focus 7I·12 Focus 26.28, Tilt 19.43

23.

Date Tues Dec 22-23, 1936 Hd- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1598	HD 5394 & Cas	00 50.7	60 11	I-25	Panchro	0/0	-6.0	5.59	6.21	/
								6.21	6.33	
								6.33	6.55	2 10m
1598 F1	Focus			I-25	Astra II	0/0	-5.7			2
		Changed	to	I-12			to			
1598 F2	Focus			I-12	Astra II	0/0	-5.2			3
	Note 1598 - JD 2428521				.465					
					.476	Dec 22				
					.489					

Evening Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		60 23	0	2 Bop	no filters 8, 8	setting 1 } Clouds
					8, 8	setting 5 } photo Thinning
	E 10m				8, 8	" 9 } Thick at 6.45
	Base outside				no filters 4/3	
					no filters 3/2	Focus 26.28 Tilt 19.5
	Base outside				no filters 3/2	
						Closed 8.00
						used own watch - 12s fast on MT clock.
						Sky quite hopeless at 12.20
						Long out.

Date Wednesday Dec 23-24, 1936 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1599	HD 217754	22 57.8	+31 14	I-12	Astra II	010	(sat -5.5)	6 12	7 22 4	2:1W
1600	2767	00 26.1	+33 02	"	"	"	-5.5	7 27	8 37 1	2:1W
1601	16220	02 31.1	+32 27	"	"	"	-5.5	8 40	9 30 2	1:41W
	Focus			"	"	"	-5.5	9 35	2	1:41W

Considerable snow on telescope + spectrograph.
Set on β Peg to check circle setting. OK.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
4	2 15W	+31 27'	3	6.74 F0	1½ 1½ 1½	Very hazy. Mirror stained with mist? Heavy fog in valleys.
1	2 01W	+33 15	3-4	7.08 K0	1½ 1½ 1½	Hazy " " " "
2	0 49W	+32 38	5-3	6.71 F5	1½ 1½ 1½	Hazy " " " "
2	Outside the basin		From 26.28			Thinking after fog rising. Closed down.
			Set from F	26.31		Closed up: 11 00
						Tube emersion = 5.0° on 4 plate

				ΔΘ M.T. Watch	ΔΘ S.T. Watch
Dec. 28	12	+26.0	-18.3	-07.5	-34.3
				Reset	

Date Monday November 28-29, 1936 H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1602	HD 206155	21 35.1	+08 44	I-12	Astra II	set 010	Set +0.5	5 40		2	
1602	218235	23 013	+17 59	"	"	"	+0.4	6 05	7 05	3	2 3W
1603	4817	00 452	+61 16	"	"	"	+0.3	7 13	8 33	4	1 59W
1604	19536	03 03.5	+60 15	"	"	"	+0.3	8 37	10 07	1	1 2W
	From test			"	"	"		10 10		1	
1605	32356	04 57.5	+61 02	"	"	"		10 12	11 38	2	1 47W
1606	33613	05 064	+59 16	"	"	"	+0.6	11 42	1 12	3	2 14W
1607	52708	06 572	+59 57	"	"	"	+0.5	1 16	3 00	4	2 13W
~~1608~~	~~76214~~	~~08 49.7~~	~~+58 36~~	"	"	"	+0.5	3.18		1	

Turned off L. & middle of afternoon. Mirror still from at start.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	+08 54	0	6.8 √ A₀		Hazy at light in SW as to make identification difficult. Stars much too faint. Clouds set in by setting of [illegible] Set watch 1ᵐ slow √ Corrected
2 13 W	+18 12	0	6.48 F₂	1½ 1½ 1½	
1 58 W	+61 29	0-1	7.43 K₂	1½ 1½ 1½	
1 12 W	+60 25	1-2	7.26 A₀	1½ 1½ 1½	Set 2½
Outside the house				7/12	1½
0 47 W	+61 06	1-2	7.27 K₀	1½ 1½ 1½	
2 14 W	+59 20	1-2	7.36 K₀	1½ 1½ 1½	seeing unsteady √
2 13 W	+59 54	1-2	7.54 K₀	1½ 1½ 1½	
	+58 26	1	6.96 A₂	1½	

blew a fuse on dec setting motor. Sky blanketed over at 7:40 with a sharp wind rising in the SE.

Dec. 29	12	+26.3	-26.0	-01.7	-31.0
Dec. 30	12	+27.0	-22.5	+05.3	-20.9
Dec. 31	12	+26.8	-22.9	-03.7	-18.5

Reset

29

M-L-MR

Date Thursday Dec 31-Jan 1 1936-37 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1607 F1				I-12	Ast III	.010	+35°			2	
1608	BD 63° 0110	00 48.6	163 33	—	—	.025m	+37	6 07	8 09	3	1 32 W

Nov 30 a.

Evening Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
		trace orbit			14-9	Exp 2631 little long set 2 24. 26
1 [illegible]	2 32 W	63 45	1	9.6	1, ½, 1	trails with shutter stay 1 open this to before could set. Quite a wind from SW wind increased - dome would not turn against it with shutters open. Angle almost got out of control when uncovered. Wind still strong at 12.30 coming in very heavy gusts. Clouds in north. Wind calming down around 12.30 but sky beginning to cloud over at 2.30 got hopeless Exposed
						Happy New Year.

Date 7 am Jan 1-2 1937 HL-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1609	HD 10638	01 38.7	32 01	I-12	Eastman I	0.10	-0.4	6.52	7 46	W33m
1610	" 19896	03 16.8	16 07	"	"	"	-0.5	7 54	9 14	W33m
1611	" 22136	03 28.9	46 46	"	"	"	-0.8	9 20	10 12	W18m
1612	" 33266	05 03.9	61 44	"	"	"	-0.8	10 18	11 15	W8m
1613	" 35607	05 20.9	66 11	"	"	"	-0.3	11 25	11 45	W5m

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	W 33m	32 13	1	6.86 A_3	1½ 1½ 1½	Clearing after sunset
[illegible]	W 33m	16 17	1	7.38 A_2	1½ 1½ 1½	Trouble at start with dec guiding + resetting + replaced fuse
[illegible]	W 1h 08	46 55	1-2	6.74 B_9	1½ 1½ 1½	Hazy
[illegible]	W 38m	61 47	2	5.99 A_0	1½ 1½ 1½	very ; Dec setting fuse gone again .
[illegible]	W 50m	60 14	1	6.85 A_0	1½ 3	Thick at 11 45 closed.

Sat. Jan 2-3 - Hopelessly clouded
Heavy sleet & Blizzard in afternoon

Sunday Jan 3-4 Partly clear . Heavy
wind & intermittent clouds in early
evening, light from 10 P.M. on

Monday Jan 4-5 - clear most of day ; forecast clouds +
snow ; clouded in thick about 3:00 p.m
and remained so all night.

Jan. 4 12 +27.3 -24.5 +21.3 +08.6

Reset

Date Tues. Jan 5-6 M-L 1937 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1614	H.D. 4701	00 44.0	+47 13	I - 12	Astra II	set 0.10	Set -1.5	5.53	7.03	1
1615	" 11336	01 46.4	+44 19	"	"	"	-1.3	7.08	8.50	2
1616	" 23477	03 40.4	+43 46	"	"	"	-1.3	8.55	10.00	3
1617	" 29487	04 33.5	+43 55	"	"	"	-1.4	10.06	11.40	4
1618	" 49949	06 45.8	+44 58	"	"	"	-1.4	11.45	12 35	1
1619	" 70338	8 16.3	+13 57	—	—	—	-1.2	12.40	2 30	2
1620	" 80654	9 15.9	+13 33	—	—	—	-1.2	2 34	4 18	3
1621	" 94118	10 46.7	46 20	—	—	—	-1.5	4 23	6 01	4
1622	" 112501	12 52.1	44 06	—	—	—	-1.5	6 07	7 07	1

Jan 6-7 } weather mild, rainy
7-8 } and foggy
9-10 } No chance of work

Note 45-2.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1.00 W	+47 26	0	7.03 A2	1/2-1/2-1/2	Jan. 5. 12 +27.2 -24.6 M Wind +24.5 S Wind +12.2
1.45 W	+44 31	0	7.43 B8	1/2-1/2-1/2	
1.00 W	+43 54	0	7.05 B9	1/2-1/2-1/2	
1.47 W	+43 59	0	7.30 B9	1/2-1/2-1/2	
0.31 W	+44 56	0	6.24 A5	1/2-1/2-1/2	
0.51 W	+13 50	0	7.14 A2	1/2-1/2-1/2	
1.46 W	+13 23	0	7.00 F5	1/2-1/2-1/2	
1.52 W	+46 07	0	7.13 A2	1/2-1/2-1/2	
0.59 W	+43 53	0	6.95 A0	1/2-1/2-1/2	temp in dome +10° F no heat or mirror dome motor dead. closed done by hand
					Jan. 6 12 +28.3 -25.0 +27.3 +19.0
					Jan. 7 13 +28.7 -24.8 +30.4 +27.4
					Jan. 8 12 +28.9 -25.1 +35.1 +32.9

Date Sunday Jan 10-11 1937 Y-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						set	set	watch time			
1623	HD 4335	00 40.7	44 18	I 12	Astra II	010	-0.5	5 58	6 38	2	5h 0m W
1624	HD 8815	01 21.8	+29 16	"	"	"	-0.4	6 44	8 34	1	2 16 W
1625	HD 23139	03 37.7	+45 48	"	"	"	-0.4	8 41	9 21	3	4h 0m W
1626	HD 27249	04 13.9	+31 44	"	"	"	-0.5	9 26	11 00	4	1h 45m W
1627	HD 45412	06 22.1	+30 34	"	"	"	-0.5	11 05	11 35	1	
1628	HD 47914	06 35.8	+44 38	"	"	"	-0.3	11 40	2 20	3	0h 45m W
1629	HD 68461	08 07.4	+16 49	"	"	"	-0.3	12 25	1.35	3	0 30 W
1630	" 76238	08 49.8	+46 09	"	"	"	-0.3	1.40	3.25	4	1 17 W
1631	" 94631	10 50.4	+58 02	"	"	"	-0.3	3.22	5.05	1	1 30 W
1632	" 114092	13 03.2	+28 04	"	"	"	-0.2	5.14	7.00	2	1 0 W
	Focus test			"	"	"					

Monday Jan 11-12 H. · Clear most of day. Southerly wind + clouds just at sunset. Fresh to strong S winds and solid cloud all night.

New Batteries on Heating relay.
Note due ~~making~~ change of night Nov.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
59m W	44° 33′	1	5.94 B8	½-½ ½	Jan. 9 15 +28.9 -25.4 ΔO M. Watch +48.2 ΔO S. Watch +37.6
2 14 W	29° 27′	1	7.52 F2	½ ½ ½	
45m W	45 55	1	6 23 A5	½ ½ ½	
1h 48m W	31 49	1-2	7.52 K5	½ ½ ½	
1+m W	30 32	2	6.0± G0	½ ½ ½	var: looks bright
0 45 W	44 37	1-2	6 35 F5	½ ½ ½	
0 30 W	16 43	1	6.90 G5	½ ½ ½	
1 17 W	46 02	1	7.21 F0	½ ½ ½	For Dr Hogg.
1 20 W	57 50	1	7.57 G5	½ ½ ½	Delay caused by Moving the focus.
1 01 W	27 55	1	7.58 K5	½ ½ ½	Setting 2½
Case outside				12-7	Setting 7½

				M. Watch	Watch
Jan. 11	12	+29.2	-25.8	-04.4	-10.7
Jan. 12	12	+29.6	-25.8	Advanced 1m -01.2	-05.6

Date Tuesday January 12-13/37 M-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Ind
1633	BD 63° 0110	00 48.6	+63° 33'	I-12	Astra II	M 0.25	-0.9	6.14	8.14 2	
1634	HD 20134	03 09.1	+59 41	"	"	0.10	-0.9	8.21	9 41 2	
1635	" 38817	05 43.4	+43 59	"	"	"	-1.1	9.45	11 23 3	
1636	TU Mon	07 48.3	-2 47	"	"	M 0.20	-1.0	11.37	1 33 4	
1637	HD 91181	10 26	+44 43	—	—	.010 L	-1.1	1 42	3 24 1	
1638	HD 96528	11 23	123 52	—	—	—	-0.9	3 28	4 12 2	
1639	HD 112501	12 52.4	44 06	—	—	—	-0.9	4 18	5 4 3	
1640	HD 126269	14 19.4	16 44	—	—	—	-1.1	5 54	7 00 4	

Jan 13-14 Mild with rain.

Jan 14-15 Cloudy with rain.

Jan 15-16 Cloudy with light rain.

Jan 16-17 Clear all day - started to open Twice,

Monday Jan 18-19 Cloudy all day; no observing at night

shot 45 a.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
8 - 1	2 34W	+63 46	1-2	9.6 -	3/4 3/4 3/4	shot 45 sec —
9 - 1	1 40W	+59 51	1-2	7.34 B_3	1½ 1½ 1½	night somewhat hazy.
23 3	0 48W	+44 01	2	7.51 A_2	1½ 1½ 1½	by time on focus H, could smell smoke from
		− 2 51	2	9.0 B_8	3/4 3/4 3/4	feet as only close [illegible]
2 - 2	0 07W	+44 31	2	7.46 A5	1½ 1½ 1½	
4 - 2	0 20W	23 42	2	6.45 A_2	1½ 1½ 1½	
5 - 1	0 05W	43 54	2-3	6.95 A_0	1½ 1½ 1½	
7 - 1	0 08E	+16 35	2	7.19 F_5	1½ 1½ 1½	
						noted that mirror is badly stained just last on tower —

				40 H. Watch	40 S. Watch
Jan. 13	12	+29.8	-26.1	-06.2	+02.4
Jan. 14	12	+29.8	-26.6	+03.8	+08.8
Jan. 15	12	+29.8	-26.9	+04.0	+19.7
Jan. 16	15	+30.0	-27.2	-30.0 Reset	+29.0

clouds and snow. Thick at 9.00 with E wind.

Date Tuesday Jan 19-20/37 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1641	HD 63312	7 43.2	46 03	1-12	Astra I	.010	−4°.9	12 18	2 22	
1642	97889	11 10.5	60 28	—	—	—	−4°.8	2 30	4 04 2	
~~1643~~	~~100806~~	~~4 31.0~~	~~25 09~~	—	—	—	−4°.5	4 09	4 40 3	

Jan 20-21 Rain

Jan 22-23 Cloudy

Slots 45 =

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Jan. 18 12 +30·0 −28·5 +03·6 +10·3
					Reset.
					Jan. 19 12 +30·2 −28·8 +02·4 −15·4
					Advanced 1m.
					halo round moon, slight haze earlier in evening
2 16W	45 58	0	7·12	A2 1½, 1½, 1½	shield done 11.45 dark room door frozen
0 32W	60 17	0–1	6·74	A3 1½, 1½, 1½	shut. Thawed out with heater.
~~0 47W~~	~~28 08~~	~~0~~	~~5·90~~	~~A3 1½~~	Dome frozen so that cable slips on
					wheels. Would not move in either direction.
					Waited a few minutes then got it started after a
					few tries. Who has done flash light??
					getting thick at 4.15, strong E wind.
					Closed at 4.40
					Put dust on around mirrors.
					Closed down 5.5.

Date Saturday Jan 23-24, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
1643	HD 5914	00 55.6	+88 29	I-12	Astra II	010	set -4.0	6 10	7 10		1
1644	29329	04 32.1	+76 25	"	"	"	-4.0	7 15	8 30		2
1645	29678	04 35.4	+75 46	"	"	"	-4.0	8 38	9 08		3
1646	31662	04 52.6	+60 56	"	"	"	-4.0	9 11	9 51		4
1647	33618	05 06.4	+59 16	"	"	"	-4.1	9 54	11 24		1
1648	73198	08 32.0	+73 31	"	"	"	-4.1	11 29	12 44		2
1649	76216	08 49.7	+58 56	"	"	"	-4.0	12 52	2 12		3
1650	77692	08 59.0	+59 45	"	"	"	-4.1	2 17	3 02		4
1651	106677	12 11.0	+73 07	"	"	"	-4.1	3 18			1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
	Turned heat off ... ice 15 ½ ins.				
	Also sawed ice out from 9 wheel of dome				
	before it would move				
	Blower E of pier; one large + off line axis				
	1 55 W	+ 78 42	1	6.54 A2	1½ 1½ 1½
	0 13 E	+ 76 30	2	6.98 F5	1½ 1½ 1½
	0 22 W	+ 75 50	2	6.32 F0	1½ 1½ 1½
	0 50 W	+ 61 00	2	6.54 F5	1½ 1½ 1½
	2 09 W	+ 59 20	2-3	7.31 K0	1½ 1½ 1½
	0 03 W	+ 73 27	2-3	6.93 A0	1½ 1½ 1½
	1 13 W	+ 52 28	2	6.96 A0	1½ 1½ 1½
	1 55 W	+ 59 37	2	6.19 A0	1½ 1½ 1½
		+ 72 48		~~7.55 K0~~	~~1½~~
	Edge weight put back in cage.				

REMARKS					
				H. Watch.	S. Watch
Jan. 20	12	+30.7	-28.9	+08.9	-09.1
Jan. 21	12	+30.9	-29.2	+15.9	-03.0
Jan. 22	12	+31.0	-29.4	+22.0	+02.2
Jan. 23	15	+30.9 (Added 0.3)	-29.5	+28.9	+01.1

Light clouds filling in from 12.15
Light haze covering whole sky
Steadily thickening, hopeless
at 4.15. Closed up at 4.30
Put heat on around mirror
Set at 45°

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End

Evening Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						C.T. ΔBMTA. ΔOS.T.A. ΔO M.Watch ΔOS.Watch
						Jan. 25 12 +30·7 −30·1 +00·9 −02·1
						Reset watches
						Jan. 26 12 +30·5 −30·6 +07·5 +06·6
						Monday 25·26 Cloudy + cold.
						Jan 26-27 — snow in early evening - cloudy late.
						Jan. 27 12 +30·6 −30·6 + 12·8 +16·9
						Jan 27-28 Cloudy with E wind
						Jan. 28 12 +30·7 −30·8 + 19·9 +24·3

Date Thursday, Jan 28-29 '37 H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1651	HD 23838	03 43.1	+44 40	I-12	Astra II	010	Set -4.0	Calt mean 7 30	7 50 8 30 2	

Fri Jan 29 Hd.

Changed to I-25

Cloudy all day. Thick haze during p.m. dark.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	+44 48	2	6.35 60	½½	Thick haze. Moisture for figure Filters in readily 8^{00}

					M. Watch	S. Watch
Jan.	29	12	+30·8	-30·8	+26·2	+31·0

I 12 focus 26.32 Tilt 19.42

I 24 Focus 23.60. Tilt 23.25

Date Fri Jan 29-30 /37 Mel L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1652	HD 5394 Cas	00 50.7	60 11	I-25	Panc	0.10	+0.5	6 11	6 17	1
								6 20	6 34	
								6 36	6 42	
1653 F1	Jones			I-25	Eastman	0.10	+0.5			2
1653 F2	Jones			I-12	"	"	+0.4			3
	-D 27°61	04 15.9	14 11	I-12	"	"	+0.2	7 23	7 31	
1654	H.D. 35238	05 18.2	31 08	"	"	"	+0.3	8 27	9 34	
1655	H.D. 5721	06 24.0	-28 17	"	"	"	+0.1	9 40	11 [illegible]	
1656	H.D. 34737	09 42.1	46 29	"	"	"	+0.2	12 33	1 07	4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
7 1			2	2.01 B_0	no filter 8.8 ret 1	Cloud K [illegible]
					8.8 ret 5	bright star near K (obscured by cloud)
					8.8 ret 9	
	2h 07m W	60 23			no filter 4/3	I changed back to I-12.
	Scope outside				no filter 3/2	Set focus 26.32 Tilt 19.42 (setting 1)
	Scope outside					
	W 23m	14 16	3	6.99 F_0	1½, 1½, 1½	
	W 35m	31 11	3	7.37 K_0	1½, 1½, 1½	
	W 52m	28 15	2	6.91 A_2	1½, 1½, 1½	Ten Thick [illegible]
	E 19m	46 20	3	5.16 G_0	1½, 3	Thick clouds [illegible]
						Closed 1.15

	C.T.	ΔθM.T.A.	ΔθS.T.A.	Δθ M.Watch	Δθ B.Watch
Jan. 30	15	+30.8	-30.9	+27.0	-17.7 advanced 1m

Sunday - clear for 15 to 20 min at sunset - then closed out - black [illegible] fibre showed -

Date Monday Feb 1-2, 1937 H- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1657F	Focus test								
	HD 16933	12 37.8	+46 26	I-12	astra II	Set 010	Set -4.0	6 14	[illegible]
	1 Coud ds plate								

Date Time Rel

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	outside the run	From run 26.27		H		11/7	ΔθM.T.A. ΔθS.T.A. ΔθM.Watch ΔθS.Watch Feb. 1 12 +30·5 -31·5 +08·5 -10·3
		+16 35	1	7.40	F5	1½, 3	Clouds about 10 min. after Reset.
							Solid 6^40. Cloud down for good.
							Spots 4^ Snow 6^
							Set from to 26.30
							Feb. 2 12 +30·4 -31·8 +02·4 -00·5

Date Geus. Feb. 2-3, 1937. M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16587	HD. 21379	03 21.8	+12 23	I·12½	Astra II	0.10	Set -7.5	6 24	7.30 3	0.40W
16589	" 26171	04 03.4	+13 08	"	"	"	-7.5	7 34	8.30 4	0.58W
16590	" 35693	05 21.5	+15 11	"	"	"	-7.5	8.34	9 34 1	0.44W
16610	" 43683	06 12.4	+14 25	"	"	"	-7.5	9.38	10.38 2	0.57W
16621	" 59059	07 23.2	+16 20	"	"	"	-7.5	10.42	11.52 3	1.21W
16633	" 80613	09 15.7	+15 48	"	"	"	-7.5	11.57	1.57 4	1.47W
16644	" 100808	11 31.0	+27 20	"	"	"	-8.0	2.02	3.22 1	0.24W
16655	" 126.69	14 19.4	+16 44	"	"	"	-7.8	3.30	5.30 2	1.55W
16665	" 133330	14 58.8	+28 40	"	"	"	-7.9	5.33	6.49 3	0.27W

Beginning Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 50 3	0.40W	+12 32	0	6.20 A_0	½-½-½	seeing terrible
2 2 4	0.58W	+13 15	0	6.00 B_4	½-½-½	
2 34 1	0.44W	+15 13	0	6.19 A_2	½-½-½	
10 32	0.57W	+14 25	0	5.98 A_0	½-½-½	blowing in strong gusts.
11 52 3	1.01W	+15 14	0	6.07 A_0	½-½-½	
1 [illegible] 4	1 14W	+15 40	0	6.49 A_0	½-½-½	
2 22 1	0 24W	+28 09	0-0	5.90 A_3	½-½-½	
5 [illegible] 1	0 16E	+16 35	0	7.19 F_5	½-½-½	
1 [illegible] 3	0 24W	+28 30	0	6.90 A_0	½-½-½	

closed 7.0

Temp in house +5° F

Put heaters on (on 2.0)

				M. Watch	S. Watch
Feb. 3	12	+30.6	−32.0	+06.1	+09.0

Date Wed Feb 3rd, 1937 Hd-1 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1666	HD 9709	1 30.0	46 36	J-12	Astra 8	010	40.5°	6 20	7 30	1
1667	HD 33266	05 03.9	61 44	"	Astra II	"	−10.2	7 36	8 10	2
1668	" 35607	05 20.9	60 11	"	"	"	−10.5	8 14	9 14	3
1669	" 50315	06 47.6	+3 04	"	"	"	−10.4	9 19	10 31	4
1670 →	" 60383	07 29.1	28 51	"	"	"	−10.3	10 36	11 36	0
1671 →	" 68776	08 08.8	13 22	"	"	"	−10.4	11 40	1 15	2
1672	" 96528	11 02.3	23 52	"	"	"	−10.4	1. 20	2 30	3

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	W 2h 35	46 49	1	7.00	B_9	2, 2, 2	Good. light rain, good
	E 20m	61 48	2	5.99	A_0	1½, 1½, 1½	
	W 28m	60 14	2	6.85	A_0	1½, 1½, 2	
	W 19m	43 03	3	7.35	A_3	1½, 1½, 1½	Missed notch on companion-primary-slide
	W 43m	25 47	4	7.10	A_3	1½, 1½, 1½	
	1.42 W	13 16	3-4	7.48	A_0	1½, 1½-1½	Sky becoming hazy. cloudy, thicken up. closed up at 330
	0.05 W	23 40	3-4	6.45	A_2	1½ 1½ 1½	

				M. Watch	S. Watch
Feb. 4	12	+30.7	-32.1	+12.5	+18.7
[illegible]					
Feb. 5	12	+30.6	-32.5	+16.6	+25.5

Date Friday Feb 5-6, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1673	HD 35189	5 17.9	16 36	I-12	Astra II	.010	−5.6	7 38	8 38	4	+1.14
1674	BD 8° 1402	06 29.3	08 54	—	—	.025 M	−5.2	8 48	11 02	1	+1.14

Sat Feb 6-7

Mostly clouds and snow with clear intervals. Opened and set 9.30 — clouds and snow again. Gave up 11.00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 07W	16 38	1	6·15 A2	1½ 1½	cloud at sunset - cleared late.
[17W	8 53	2	9·0 A	¾ ¾ ¾	frozen up outside by at 10·50 a little ahead 10·50 thick 11·10 closed 11·15
					+50·0
					ΔθM.Watch ΔθS.Watch
					Feb. 10 12 +29·8 −34·1 +17·1 −34·1 Adv. 1m.

Date Wed Feb 10-11/37 Hd-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1675	H D 26911	04 10.1	15° 09	I-12	Cramer II	0.10	-5.6	6 20	7 20	2	W 13m
1676	" 27561	04 15.9	14 11	"	"	"	-5.8	7 25	8 35	3	W 1h 22
1677	" 45121	06 24.0	28 14	"	"	"	-5.5	5 40	9 55	4	W 3h 7m
1678	" 68776	08 08.8	13 22	"	"	"	-5.5	9 56	[illegible]	1	W 11m
1679	" 82010	09 14.2	31 45	"	"	"	-5.5	11 21	1 11	2	O 51 W
1680	" 96628	11 02.3	23 52	"	"	"	-5.5	1.17	2 17	3	O 18 W
1681	" 106926	12.12.7	15 42	"	"	"	-5.5	2.21	4.01	4	O 53 W
1682	" 121626	13.51.5	29 10	"	"	"	-5.5	4.05	5.20	1	O 33 W
1683	" 140612	15 39.5	46 04	"	"	"	-5.4	5.30	6.30	2	1 32 E

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
W 13m	15 16	0	6.77	F_5 1½, 1½, 1½	
W 1h 22	14 18	1	6.99	F_2 1½, 1½, 1½	
W 29m	28 15	0	7.91	F_2 1½, 1½, 1½	
W 11m	13 15	1	7.78	F_2 1½, 1½, 1½	
0 51 W	31 36	1	7.55	B_8 1½, 1½, 1½	Image unsteady all night, due to wind.
0 18 W	23 40	1	6.45	A_2 1½-1½-1½	
0 53 N	15 30	1	7.53	K_0 1½-1½-1½	
0 33 W	25 58	1	7.11	A_0 1½-1½-1½	
0 03 E	45 58	1	7.18	F_0 1½-1½-1½	Light clouds setting in last hour.

			40 M. Watch	Δ 0 S. Watch
Feb. 11	12	+29.8	−34.1	+21.8	−34.1

M — Feb 11-12 Stars shining more steadily last hour. Seeing ... +12.10

Feb 12-13 Thickening from zenith ...

Date Feb 14-15 Sunday/37 Y-h Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1684	HD 47914	6 35.8	+44 38	I-12	astra II	010	-0.5°	9 40	10 10 ~~20~~	3
~~1685~~	HD 69788	8 13.5	16 26	"	"					4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS					
											Δθ M.Watch	Δθ S.Watch
		44 36	1	6 35	K5	1½ 1½	- stopped by clouds.					
				6.79	A_0		Feb.	12	12	+29.7	-34.5	+23.7	+02.3
							Feb.	13	10	+29.5	-34.5	+24.1	+07.8
							Snow in early evening, cleared about 9 P.M						
							Feb.	15	12	+28.7	-35.3	+14.7	+20.0
							Feb.	16	12	+28.3	-35.7	$\bar{\theta}$ 15.1 adv. 1m.	+25.5

Date Monday, February 15-16, 1937 H- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1685	HD 34762	05 14.7	+27 51	I-12	Astra II	0.10	Set -4.0	8 58	9 53 4	
1686	60335	07 28.9	+43 15	"	"	"	-4.1	10 03	11 13 1	
~~1687~~	~~75523~~	~~08 4.1~~	~~+45 41~~	~~"~~	~~"~~	~~"~~		11 16	12 05 2	

Cloudy all day. Thinning out during evening.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 07 W	+27 54	0	6.30	B9	1½ 1½ 1½	Haze.
1 07 W	+43 13	0	6.58	F0	1½ 1½ 1½	Haze. Moderate haze $10^{45}=11^{00}$
		0	7.08	K0	1½	Haze. Thick most of time. Cloud up midnight.

Date Tuesday, February 16-17/37 M-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Incl
1687	H.D. 28150	04 21.3	+17 58	I · 12½	Astra II	0·10	Set -5.3	6.40	8.00 1	
1688	" 35909	05 22.9	+13 37	"	"	"	-5.3	8.06	[illegible] 2	
1689	" 58729	07 21.8	+15 30	"	"	"	-5.4	9.10	10.55 3	
1690	" 71555	08 23.0	+14 33	"	"	"	-5.4	11.00	11.57 4	
1691	" 82555	09 27.6	+45 44	"	"	"	-5.4	12.03	2·33 1	
1692	" 122442	13 56.8	+28 53	—	—	·015 L	-5·5	2·41	4·11 2	
1693	" 134305	15 04.0	+12 52	—	—	·010	-5·5	4·16	5 26 3	
1694	" 153286	16 53.4	+47 32	—	—	—	-5 5	5·32	6·28 4	

plates 50 sec.

Ensuing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1.05 W	18 03	0	6.74 A_0	1½-1½-1½	
	1.10 W	13 37	0	6.32 A_2	1½-1½-1½	
3.56	1.00 W	15 26	0	6.97 B_8	1½-1½-1½	
	1.01 W	14 25	0-1	5.96 A_2	1½-1½-1½	
		45 35	1	7.9 A_3	1½-1½-1½	
4.11	0 17 E	28 43	2	7.98 A_2	1½-1-1½	
	0 09 E	12 43	1-2	7.24 A_3	1½-1½-1½	
	0 51 E	47 29	3	6.94 A_2	1½-1½-1½	

				ΔΘ M.T./Watch	ΔΘ S.T./Watch
Feb 17	12	+28.2	-35.9	-10.7	-24.5

X

Date Wed Feb 17–18/37 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1695	HD27561	04 15.9	14 1½	I-12	Eastman II	0.10	-1.5	6 29	7 29	1	
1696	" 35607	05 20.1	6 11	"	"	"	-1.3	7 34	8 20	2	
1697	" 47043	06 09.0	16 04	"	"	"	-1.5	8 26	9 46	3	
1698	" 60593	07 29.1	24 51	"	"	"	-1.3	9 50	11 04	4	
	4 runs						-1.3				
		Fri	Feb 19-20 – Thick (2 to 3 magnitudes) haze rain, clear								

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
W 43m	14 16	4	6.99 F_0	1½, 1½, 1½	Thick haze throughout 16h5-
W 28m	60 13	4	6.85 A_0	1½, 1½, 1½	guiding poor.
W 1h 01	16 03	4	7.51 G_5	½, 1½, 1½	Some clouds
W 1h 45	28 47	5	7.10 A_3	1½, 1½, 1½	cell end 13 50 Thick at 11,00
outside limit				10/7	Cloud

					ΔOM. Watch	ΔOS. Watch
Feb.	18	12	+28.3	-35.9	-07.9	-16.5
Feb.	19	12	+28.6	-36.4	-05.4	-11.2

Date Fri Feb 19-20/37 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
-1699	HD 965-28	11 02.3	23 52	I-12	Cutina II	010	+1.3	1 17	2 37 1	
1700	" 113747	13 01.4	45 48	"	"	"	+1.3	2 45	3 53 2 3 41	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 1h 14	23 40	1	6.45	A_2	1½, 2, 1½	Hazy
	W 31m	45 37	1	6.72	K_0	1½, 2, 1½	Thick at 340 Cloud +00

	C.T.	ΔθH.T.A.	ΔθS.T.A.	ΔθH. Watch	ΔθS. Watch
Feb. 20	10	+28.8	-35.5	-07.4	-05.3
Feb. 22	12	+38.0	-36.4	-25.6 Reset	+05.1

M.T. Clock lost 10 sec - jogs minute hand at 22 and 52

Date Saturday Feb 20-21, 1936 M-L 7 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1701	HD 35522	5 20.2	15 23	I-12	Astro II	.010	+1°.5	7 18	9.30	3	
(170(F,)				-	-	-	+1.4				
1702	Z 613	9 [illegible]7	15 48	—	—	.010	+1.2	11.49	1[illegible]	4	

plate 502

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
1 52 W	15 25	1	7·02	B9	1½ 1½ 1½ 14 9	clouds all day – cleared after sunset some light clouds and considerable haze when stars appeared heavier clouds at 8·30 very thick
Base on this						
						Thick at 9.30. Cleared before 8.48. Quite clear 9.45
						clouded again at 11·00. Cleared at 12.30 thin hazy with light clouds
1.22 W	15 38	1	6·49	A0	1½ 1½ ½	thickening up again at 12.50
						Closed at 1.35 quite thick

Date Monday, February 22-23, 1937 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1703	H.D. 28271	04 22.5	+30 09	I-12	Astra II	010	set -2.5	6 35	7 35 3	
1704	34762	05 14.7	+27 53	"	"	"	-2.5	7 38	8 23 4	
1705	47270	06 32.7	+44 06	"	"	"	-2.6	8 26	9 51. 1	
1706	75523	09 45.4	+45 41	"	"	"	-2.7	10 33	11 43 2	
1707	96528	11 02.3	+23 52	"	"	"	-2.7	12 37	1.37 3	
	112570	+2 67.6	+46 44	"	"	"	-2.6	3.00	4	

Tuesday Feb 23-24 Clouds during first part of night Clearing pretty well by 1.30 a.m. but so hazy could only see 1st mag. in southern sky Clouds coming up again at 2.00 a.m. -M

Cloudy most of day; clearing after sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 02W	+30 15	1	6.68	F5	1½1½1½	Some clouds at start. Faint stars
0 58W	+27 54	1	6.28	B9	1½1½1½	
1 98W	+14 05	2	7.51	K0	1½1½1½	Scattered clouds; partially overcast. Cloud at 9:30 light snow, drifting. 5
0 47W	+45 32	2	7.08	K0	1½1½1½	Thick clouds again 10:55 – 11:30; 1" snow 0
0 26W	+23 39	1	6.45	A2	1½1½-1½	For 2 nights heard. scattered clouds, haze.
	+46 31	1	7.22	K0	1½	clouded up solid at 1.40 Beginning to break and clear at 2.30 Gradually filling in, solid at 3.50.
						Cloud up at 4.00 starting to snow.

Wed Feb 24-25 - Mostly cloudy, clearing (with haze) occasionally. Opened 10.30 - snow. Thickening at 12.00. - Hd-L.

				M. Watch	S. Watch
Feb. 23	12	+37.8	-36.9	-25.0	+09.1
Feb. 24	12	+33.8	-37.1	-23.8	+07.1

NTA 5 pp minute land at 56 + 26

Date Thursday February 25-26 1937 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1708	HD 63630	07 44.8	+46 12	I-12	Astra II	set 010	-5.4	9 45	11 00	1	
1709	76238	08 49.8	+46 09	"	"	"	-5.4	11 04	1 40	2	
1710	96529	11 02.3	+23 52	"	"	"	-5.4	1 48	3 00	3	
1711	110 [illegible]4	12 39.8	144 39	"	"	"	-5.3	3.04	4.20	4	
1712	132495	14 54.1	111 52	"	"	"	-5.4	4.24		1	

cloudy most of day; cleared 9 pm, then early evening. Opened up but had to wait for moon to stop shining off dome. Cooling to light dome 9h15m - 9h38m.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
	1 17 W	+46 07	1	6.61	A3	1½	1½	HAZE.
	2 52 W	+46 02	1	7.21	F0	1½	1½	
	2.00 W	+23 31	1	6.45	A2	1½	1½	For D.A Heard.
	1.43 W	+44 27	0	6.76	F5	1½	1½	Haze
	—	+44 43	0	7.28	A2	1½	—	sky filled in middle at 5.00 closed up at 5.30

				M. Watch	S. Watch
Feb. 25	12	+33.4	-37.7	-21.5	+21.5
Feb. 26	12	+02.1	-38.0	-18.9	+28.8

Rest.

M-L

Date Saturday - February 27-28/37 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1712	H.D. 35693	05 21.5	+15 11	I·12	Astra II	set 0.10	Set -6.0	6.50	7.50	2	0.31
1713	" 44738	06 18.3	+14 10	"	"	"	-6.3	7.55	9.55	4	1.41
1714	" 68903	08 09.4	+16 23	"	"	"	-6.3	10.35	12.[illegible]	1	2.17
1715	" 96528	11 02.3	+23 52	"	"	"	-6.3	12.20	1.42	2	3.34
1716	" 105262	12 02.1	+13 33	"	"	"	-6.7	1.46	3.36	3	1.[illegible]
1717	" 133909	15 01.9	+59 55	"	"	"	-6.4	3.43	6.10	4	1.[illegible]
F1							-6.5				

α Lyr 50 8.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0.38 W	+15 12	0	6.19	A2	1½-1½-1½	Seeing poor!
1.48 W	+14 11	0	7.3	A or	1½-1½-1½	
2.17 W	+16 17	0	7.13	B8	1½-1½-1½	
0.51 W	+23 40	0	6.45	A2	1½ 1½ 1½	
1.45 W	+13 20	0-0	6.98	B9	1½ 1½ 1½	clock following very fast during these sights.
1.21 W	+59 47	0	7.32	A2	1½ 1½ 1½	
	Same as End 6.				64	

Date Sunday Feb 28 - Mar 1 /37 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set		watch time			
1718	HD 47914	06 35.8	+44 38	I-12	astra II	010	-4.0°	6 49	7 59	1	24½ E
1719	HD 68461	08 07.4	+16 49	"	"	"	-3.6	8 07	9 37	2	17½ E
1720	HD 69788	08 13.5	+16 26	"	"	"	-3.6	9 43	11 23	3	16½ W
1721	HD 94631	10 50.4	+58 02	"	"	"	-4.0	11 55	1 35	4	0.9 W
1722	HD 107415	12 15.8	+16 05	"	"	"	-4.0	1 42	3.42	1	1.4 W
1723	HD 114092	13 03.2	+28 04	"	"	"	-3.6	3.48	4.45	2	1.5 W

Monday - Mar 1st, 1937 - M

Cleaned contacts in control clock on N-pier. Installed new switch. Tried out control clock. Seems to operate satisfactorily; to be used if Hydro rate poor.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	24m E	44 37	2-1	6.35	K5	1½ 1½ 1½	guiding very bad last few hours as time slows. Hydro frequency is wk. ? it seems to be.
	17m E	16 43	1	6.90	G5	1½ 1½ 1½	
	24m W	16 20	2-1	6.79	A0	1½ 1½ 1½	
	0.59 W	57 50	2-1	7.56	G5	1½ 1½ 1½	
	1.41 W	15.54	2-1	7.51	K0	1½ 1½ 1½	
	1.57 W	27 53	3-2	7.58	K5	1½ 1½	Light curves clouds beginning to fill sky in at 4.40. Solid at 4.45 Clear at 5.30 still thick.

	C1	H1A	S1A	M1 sub	S1 sub
Mean	12	+.027	-.369	-.182	+.243

Some wisps still - restarted (M1A)

Date Monday March 1-2, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set	Set				
1724	H.D. 29678	04 35.4	+75 46	I - 12	Astra II	010	-2.5	6 39	7 24	1	
1725	29329	04 32.1	+76 25	"	"	"	-2.3	7 28	8 48	2	2 10 W
1726	52708	06 57.2	+59 57	"	"	"	-2.4	8 53	10 38	3	1 59 W
~~1727~~	~~73190~~	~~08 32.8~~	~~+73 31~~	~~"~~			-2.4	10 42		4	
	96528	11 02.3	+23 52								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 04 W	+ 75 50	1	6.32	F0	1½ 1½ 1½	Strong SW wind. Set up Eq pin. Windscreen off.
	2 30 W	+ 76 31	1	6.93	F5	1½ 1½ 1½	
	1 58 W	+ 51 55	1-2	7.54	K0	1½ 1½ 1½	Focus 9^23 – 10^30 Shut off after 9^57
				6.93	A0	1½	Thickening fast 10^57. Star almost gone. Solid
				6.45	A2		Cloud shutter 11^30
							Cloud off 2^15. Solid + ll.

				H. Watch	S. Watch
Mar. 2	12	+05.0	-38.8	-16.0	-07.4

Seconds hand 30 sec. out. Jogs at 30 × 60 instead of 31 × 61

Clock drove perfectly from start till 7^50; fast on pendulum control when it started running off. Shut off when clock about 9^00. Try to drive again till 10^15; still fast on control. During 1726 detected burning smell; found trouble in 5 fine [illegible] wire on shaft going to worm. Shut off shut. Temp. held constant without shutter. Try to contact clock work to stop fog.

Spots; 40^3

Date Tuesday March 2-3 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1727	HD 35909	05 22.9	+13 37	I 12½	Astra II	set 0.10	Set −1.0	6.45	7.55	1	0.34 W
− 1728	TU Mon.	07 48.3	−02 47	"	"	M 0.20	−1.0	8.14	10.19	2	0.53 W
1729	HD 70338	08 16.3	+13 57	"	"	0.10 L	−.9	10.29	12.01	3	1.12 W
− 1730	UV Leo	10 [illegible]	+1[illegible]	−	−	.025 M	−1.1	12.09	2.39	4	2.29 W
1731	HD 134305	15 04.0 (1937)	+12 52 (1937)	−	−	.010 L	−0.9	2.45	4.39	1	0.11 E
− 1732	Mars	15 38.5	−18 03	−	Astra IV	.010 L	−1.0	4 59	5.00	1	
	−			−	−	.015 L	−	5 01	5.02	−	
	−			−	−	.020 L	−	5 03	5 04	−	
	−			−	−	.025 L	−	5 05	5 06	−	
	−			−	−	.030 L	−	5 07	5 08	−	
	−			−	−	.050 L	−	5 09	5 10	−	
− 1733	−			−	−	.050		5 19		4	
	−			−	−	.080		5 20		−	
	−			−	−	.080		5 21		−	
	−			−	−	.020		5 22		−	
	−			−	−	.040		5 23		−	
	−			−	−	.040		5 24	5 27	−	0.14 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			Spots 40s	REMARKS
	0.54W	13 38	0	6.32	A_2	1½-1½-1½		
	0.53W	-2 55	1	9.0	B_8	¾-¾-¾		
	2.12W	13 50	1	7.14	A_2	1½-1½-1½		
	2.29W	14 35	1	8.6	G_5	¾-¾-¾		
	0.01E	12 44	1	7.24	A3	½, ½, ½	Setting	Exposure
		-18 03	1				1	60 sec spots 40s
		—	—				2.5	"
		—	—				4	"
		—	—				6	"
		—	—				7.5	"
		—	—				9	"
		—	—				1	10 sec spots 40s
		—	—				2.5	10 "
		—	—				4	5 "
		—	—				6	10 "
		—	—				7.5	10 "
	0.14W	—	—				9	180 "

Date Wednesday March 3-4, 1937 H-HI Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1734	HD 34762	05 14.7	+27 51	I-12	A Sta II	Set 010	Set -0.5	6 42	(7 40) 8 00		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							M. Watch S. Watch
							Mar 3 12 (+31.5) -39.1 -17.5 -02.6
							M.T.A. jogs minute hand at 4.
	1 16W	+27 54	1-2	6.30	B9	1½1½1½	Light clouds most of observation. Thick 7^40
							Remained Thick Closed 10:20 —
							Mar. 4 12 +05.0 -39.2 -12.0 +03.8

Date Thursday March 4-5, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1735	HD 43044	6 9.0	14 38	I-12	Ast 18 II	.010	−0°.4	7 34	9 1[illegible]	3
1736	57059	7 23.2	15 20	—	—	—	−0.2	9 20	10 [illegible]	4
1737	71552	8 22.0	14 33	—	—	—	−0.4	10 03	10 4[illegible]	1
1738	91181	10 26.5	44 43	—	—	—	−0.2	10 47	12 [illegible]	2

Friday Mar 5-6 Hd Snow all night

Clouds all day. Cleared after sunset. Clouds still low in north

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
37 W	14 37	1	(6.80)	B9 1½ 1½	Double-tooth image to the right blurred and brighter guiding with [illegible] motor [illegible] dark Rheo [illegible] and [illegible]
07 W	15 15	1	6.07	A0 1 1½ 1½	Clouds and haze coming from W at 10
53 W	14 25	1	5.96	A2 1½ 1½ 1½	
44 W	44 30	2	7.46	A5 1½ 1½	

Beginning to fall at 11.45

Stopped at 12.00. Clouds up at 2.00 still falling

				M. Watch	S. Watch
Mar. 5	12	+00.2	-39.7	-13.6	+11.1
Mar. 6	10	-02.8	-40.0	-10.0	-13.2

Jog at 9

Date Saturday March 6-7, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1739	HD 60335	07 28.9	+43 15	I-12	Astra II	0.10	set -8.3	8 45	9 55	3	
1740	75523	08 45.4	+45 41 33	"	"	"	-3.5	9 58	11 08	4	
1741	96528	11 02.3	+23 52	"	"	"	-3.5	11 14	12.14	1	
1742	98354	11 13.7	+14 49	"	"	"	-3.5	12.18	2.08	2	
1743	112590	12 52.6	+46 44	"	"	"	-3.7	2.13	3.58	3	
1744	132495	14 54.1	+44 02	"	"	"	-3.5	4.02	5.52	4	

Clouds with flurries and snow all day. Cleared to clear about 6^h45^m. Folded in dark at 7^h15^m. Started 7^h-8^h30^m [illegible] Left dome after dark 8^h; closed up. Cleared 8^h30

88

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 04 W	+43 12	0	6.58	F3	1½ 1½ 1½	Strong N wind
	1 01 W	+43 23	0-1	7.08	K0	1½ 1½ 1½	
	0 10 E	+23 41	0	6.45	A2	1½ 1½ 1½	
	1 33 W	+14 38	0	7.21	G0	1½ 1½ 1½	
	1 45 W	+46 33	0	7.22	K0	1½ 1½ 1½	
	1 35 W	+47 44	0	7.28	A2	1½ 1½ 1½	

1937

Date Sunday March 7-8 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Exposure
						Sat					
1745	HD 36468	05 26.8	43 52	I 12	Agfa II	010	-4.0	7 00	9 00	1	2 hr
1746	HD 69788	08 13.5	16 26	"	"	"	-4.0	9 10	11 00	2	2 hr
	HD 94631	10 50.4	58 02	"	"	"				3	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
E. 17 W	43° 54	0-1	7.16	B9	2-1-2	Thick about ½ time (gundset ork)
E. 29 W	16° 21	0	6.79	A0	1½ 1½ 1½	
			7.56	G5		
						M Watch S Watch
						March 8 12 -04.2 -40.5 -05.3 -24.5
						Jog at 11 Advanced 1m
						March 9 12 -08.2 -41.0 +03.1 -14.7
						Jog at 15
	Monday March 8-9		-H			Cloudy with snow flurries.

1937

Date Sunday March 9-10 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		How Angle Ind
- 1747	HD 55383	07 07.6	+16 20	I-12	Astro II	Set 010	Set -7.4	8.05	10 05	1	
	" 84157	09 37.7	+10 27	"	"	"	-7.5	10.10	—	2	
1748	HD 105262	12 21	13 33	—	—	—	-8.2°	1.08	3 38	3	2 3/4 W
1749	153286	16 53½	47 22	—	—	—	-8.3	3.48		4	—

Stars NW end.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 47 W	16 16	0	6.66	M6	1½ 2 2½	seeing poor! clouds and light snow at sunset delayed opening by hour. Came up at 6:20 sky filled in suddenly at 10:20 — began to take U-lights
	—	30 16	0	5.79	A2	1½	clearing again at 12:30 closed up: seeing very bad
13 38	2 27 W	13 21	0-0	6.98	B9	1½ 1½ 1½	very light snow falling
4	—	47 58	0	6.94	A2p	1½	snow getting thicker at 4:00 thought better to close
							closed up 4:15 sky thick

			H. Watch	S. Watch
Mar. 10	12	(- 22.2) - 42.1	-00.2	-08 4

Jogs to half minute at 59

93.

1937

Date Wed March 10-11 HA — Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1749	HD 60383	07 29.1	28 51	I-12	Eastman II	010	(net −8.5)	8 03	9.45	1	
1750	~~HD 5661~~	59 07.4	7 55	"	"	"	net −6.0	9 50	—	2	

Snowing most of day - Clearing 7.30 →

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
W 1h 10	28 46	0	7.10	A_3	1½ 1½ 1½	(Note re Temp: -8.5 must have been read wrongly (-7 last night very weak)
			6.74	F_0	1½	Clouding up from 9.45 Closed 10.45
						Later: at 10.30 temp was -4.0, so heat control must have been bad
						M. Watch S. Watch
						Mar. 11 12 -42.7 +01.8 -00.1
						M.T. Clock seconds relay sticking badly

Date Thursday March 11-12, 1937 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						Sec"	Set			
1750	HD 34762	05 14.7	+27 51	I-12	Astra II	210	-5.0	7 38	8 18	1
~~1751~~	~~56200~~	~~07 11.0~~	~~+16 18~~				~~-5.2~~	~~8 21~~	~~9 54~~	2

Fri Mar 12-13: Blizzard in evening. Clearing suddenly about 11.00. Started to open 11.40 shutters stuck. Went down on roof & went to telescope. In view of clouds at 1.30 didn't ascend to upper rails. Closed.

Hd - L.

Study mark of after-image. Closing of the lens.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	2 00W	+27 54	4	6.24	B 9	11 12	Light leak from [illegible]
	~~1 45 W~~		~~3~~	7.25	F 5	~~12 12~~	Early filling in stage 8 45m - 9 0m. Last part of IE from 9 0 - 10 0. Plate partly IE. Head of 11 0

				H Watch	S Watch
Mar. 12	12	+04.2	-43.6	+04.0	+06.0
		Jog at 3			
Mar. 13	10		-43.7	+08.6	+12.1

Date Saturday Mar 13-14, 1937, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1751 F_1				I-12	Astra II	.010	-2.4°		setting 8	1	
1751	HD. 45180	6 20.9	15 35	—	—	—	-2.0	7.04	8 22	—	1 06W
- 1752	W U Ma.	9 36.7	56 25	—	—	.015 M	-2.2	8 40	10 30	2	0 01E
- 1753	W U Ma.	—	—	—	—	—	-2.5	10 30	12.40	3	2 07W
1754	HD 97889	11 10.5	60 28	"	"	.010	-2.6	12 45	2.15	4	2 11W
1755	" 133909	15 01.9	59 55	"	"	"	-2.5	2 30	4.40	1	3 44W
1756	" 161569	17 41.2	45 05	"	"	"	-2.5	4.46	5.46	2	5 -TE
		Monday - Mar 15, 1937			M						
	Put in new arc electrodes. Tested comparison.										
1756 F_1				I-12	Astra II	.010				1	
	Took off slit and daylight for comparison. Found big obstruction in lens for comparison arc. Cleaned lens and filters & comparison. Also cleaned slit and slit jaws. Put slit										at setting
1756 F_2				—	—	.000	-4.3°			2	from 4.5
						1010					"

Sunday March 14-15 Clear all day. Thickened at Sunset. Frost at 2 PM (on Morning

Shots 50 sec.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg.	Mag.	Comp.	REMARKS
						14 10	adjusted arc terminals -
3 22	[06 W	15 35	1	6.69	B9	1½ 1½ 1½	quiescent auroral glow in north. Irregular during all but
3 37	0 01 E	56 14	1	8	F8p	1 1 1	bright auroral rays in north at 7.45 seeing blowing up
3 49	2 09 W	—	1-0	—	—	1 1 1	look better.
3 [illegible]	2 11 W	60 18	0-1	6.74	A_3	1½ 1½ 1½	
[illegible]	0 4[illegible] W	59 47	1	7.32	A_2	1½ 1½ 1½	
5 [illegible]	5 47 E	45 04	1	6.59	B_9	1½ 1½ 1½	
							comparison very non uniform on above plate.
		setting	3			6 a	
		"	7			12 a	comparison still just as bad.
	at setting	a	line	found	—	about	16.4
	focus test	setting	3	true		6 a	still slight non uniformity - focus about right.
	"	"	7	"	"	14. 9 a	
			9	"	"	17 9	
			1			6 a	

Date Monday March 15-16, 1937 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
							Set				
1757	HD 34762	05 14.7	+27 51	I-12	Astra II	010	-3.0	7 35	8 35	1	
1758	76238	08 49.8	+46 09	"	"	"	-3.4	8 40	10 40	2	
1759	96528	11 02.3	+23 52	"	"	"	-3.4	10 45	11 45	3	
1760	100972	11 32.2	+45 17	"	"	"	-3.4	11 49	1 16	4	
1761	110834	12 39.8	+44 39	"	"	"	-3.4	1 20	3 10	1	

Cloudy most of day; still thick fog at 1st

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Stage. ΔθS.T.A. Δθ M.T. Watch ΔθS.T. Watch
	2 34 W	+27 55	1	6.30	B9	1½ 1½ 1½	Mar. 15 12 — -43.9 +17.3 +27.1
	1 04 W	+46 01	1-2	7.21	F0	1½ 1½ 1½	Stage
	0 03 E	+23 41	1-2	6.45	A2	1½ 1½ 1½	Stage
	0 58 W	+45 36	1	6.56	B9	1½ 1½ 1½	Stage.
	1 45 W	+44 28	0	6.76	F5	1½ 1½-1½	Stage. Seeing becoming unsteady. Fog up slowly. very thick at 3.15 Clear up at 4.0 AM.
							Synchronous motor OK 7^20 – 8^00. The = feed dead control link; it rubbed very will + fit it reasonably (+ with) + how [illegible] of end so fit that the control will not quite reach the stop again + 12^00
							Mar. 16 12 — -44.0 +15.4 +23.6

Date Wed March 17-18 1937 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1762	HD 82010	09 24.2	31 45	I-12	Astra II	010	-0.5	8 52	10 42	2	
1763	" 96528	11 23	23 52	"	"	"	-0.5	10 48	11 30	1	
1764	" 105388	12 03.6	31 37	"	"	"	-0.5	11 34	1 10	4	
1765	" 121626	13 31.5	29 10	"	"	"	-0.5	1 15	2 35	1	
1766	" 130945	14 45.8	46 32	"	"	"	-0.5	2 39	3 49	2	
1767	" 141930	15 46.6	44 49	"	"	"	-0.7	3 55	5 40	3	

Clouds and gales at most times
– Still very windy.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS				
									ΔθM. Watch	ΔθS. Watch
W 40m	31 38	2→1	7.55	K8	1½, 1½, 1½	Mar. 17	12	—	-44.4	+16.6	-28.2
E 10m	23 41	improved from 3	6.45	A2	1½, 1½, 1½						Adv. 1 min
0.29 W	31 25	2-1	7.24	A0	1½, 1½, 1½	very windy image unsteady					
0.00	29 00	2-1	7.11	A0	1½, 1½, 1½	" " "					
0.26 W	46 23	1	6.15	F5	1½, 1½, 1½	" " "					
1.17 W	44 43	1	7.57	A0	1½, 1½, 1½						
						Mar. 18	12	—	-45.8	+18.0	-23.6
						March 19	12		-45.0	+18.0	-17.4
						Mar. 20	10	—	-45.2	+16.4	-22.2

1937

Date Sunday Mar 21-22 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1768	HD 69788	08 13 5	16 26	I.12	Astra II	010	+2.5°	7 30	8 45	4	0.2 W
1769	HD 69788	"	"	"	"	"	+3.0	8 46	10 16	1	1.40 W
1770	HD 92371	10 34.8	28 02	"	"	"	+2.5	10 20	11 50	2	0 53 W
1771	HD 114723	13 07.3	32 39	"	"	"	+2.5°	11.55	1 40	3	3 11 W
1772	HD 131764	14 50.4	30 28	"	"	"	+2.7	1.45	3.30	4	3.15 W
1773	HD 153472	16 54.7	42 39	"	"	"	+2.6	3.37	5.32	1	3 17 W

Used Contract Clock
New batteries on relay at 10 PM

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	9m W	16 20	2 !	6 79	A_0	1½ 1½ 1½	Record Morris position, Image is use on Main mirror. Passing above hole, tangent to shadow of crossing air.
	1h 40 W	"	1	"	"	1½ 1½ 1½	
	0 53 W	27 52	1	6.99	A_2	1½ 1½ 1½	
	0 11 W	32 26	0	7 16	F8	1½ 1½ 1½	
	0 18 W	30 20	0	7 18	F_2	1½ 1½ 1½	
	0 17 W	42 37	0	7.45	K_2	1½ 1½ 1½	

				M. Watch	S. Watch
Mar.	22	12	—— -45.8	+20.2	+07.0

Date Monday March 22-23, '37 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1774	Focus Test				Astra II	010	Set +0.8	6.50 pm		1	
	HD 34762	05 14.7	+27 51	I-12	Astra II	010	+0.8	7 10	8 00	1	
1775	63630	07 44.8	+46 12	"	"	"	+0.8	8 04	9 24	2	
1776	76238	08 44.8	+46 09	"	"	"	+0.6	9 26	11 06	3	
1777	99946	11 24.8	+30 32	"	"	"	+0.7	11 10	12 50	4	
1778	106022	12 06.9	+29 06	"	"	"	+0.8	12 34	1 56	1	
1779	138265	15 25.9	+41 01	"	"	"	+0.6	2 06	3 56	2	
1780	151388	16 42.0	+43 24	"	"	"	+0.5	4.00	5.25	3	

Tues Mar 23 Hd (I-12 Focus 26.28 Tilt 19.45)
Changed to I-25 Focus 23.60 Tilt 23.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	Outside the house					12,7	
	2 26 W	+27 54	0-1	6.30	B9	1½ 1½ 1½	Mirror very astigmatic.
	1 19 W	+46 07	1-2	6.61	A3	½ ½ 1½	
	1 57 W	+46 02	2-3	7.21	F0	½ ½ 1½	
	0 47 W	+30 30	2	7.06	F0	½ ½ 1½	First aurora
	1 31 W	+29 54	2	6.74	F2	½ ½ 1½	
	0 13 W	+60 54	2-1	7.26	K5	½ ½ 1½	
	0 27 W	+43 20	2-3	7.14	K2	½ ½ 1½	seeing becoming extremely good at times.

		S.T.A.	M. Watch	S. Watch
Mar. 23	12	-44.8	+20.2	+12.6

1775. Install with central clock; bearings of contact at bottom of pendulum are bad that contact often would stay out, making central torpedoes. Tilted bearings which fixed this but let down current to relay so much that better mixed often. Removed one contact disc, smoothed up bearings and refixed. Controlling very well.

Controlled perfectly, remainder of night. Longer it

(1937)

Date Tues Mar 23-24 Hd -L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 1781	HD 5394	00 50.7	60°11	I - 25	Focus	010	+0.7	7.17	7.18½	4	
								7.20	7.23		
								7.25	7.33		W 6.26
1782	HD 75486	08 45.2	62 20	"	Extra II	010	+0.8	7.53	8.53	1	E 8m
1783	" 75487	08 45.2	59 28	"	"	"	+0.9	9.51	10.47	2	W 1.07
1784	" 99532	11 24.0	30 38	"	"	"	+1.0	10 13	12 33	3	1.55 W
	Focus Test.			"	"	"					
1785	" 142926	15 52.2	+42 51	"	"	"	+0.5	12.41	1 39	4	E
	Focus Test			"	"	"					
1786	" 130945	14 45.8	+46 32	"	"	"	+0.6	1.47	2.47	1	E
- 1787	" 145849	16 08.1	+36 41	"	"	"	+0 5	2.51	4 31	2	W
1788	" 142926	15 52.2	+42 51	"	"	"	+0.6	4.35	5.25	3	W
	Wed Mar 24 Hd										
	Changed to I-12.			Focus		26.28	Tilt 19.45				
1788F	Focus			I-12	Extra II	010	-1.5				

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	/	2	2.01	$B_0 p$	no filter 8, 8	set 1 / Through 2. Light clouds / about 7m.
					5, 5	" 5
W $6^h 26^m$					6, 6	" 9.
E 8m	62 13	2	6.00	F_0	3, 3, 3	
W $1^h 07^m$	59 19	3	6.36	F_0	3, 3, 3	
1.55 W	30 47	2-3	7.44	7_2	3, 3, 3	
	outside through base.				no filter 4/5	set 9 When making this test. I forgot to remove filter, it will be very weak, I repeated test on night plate, removing filter.
2.26 E	42 46	1-2	5.6	B_8	3, 3, 3	
	outside through base				no filter 4/3	
0.12 E	46 24	2	6.18	F_5	3, 3, 3	
0.10 W	36 36	2	6.86	K_5	3, 3, 3	
1.20 W	42 46	2-1	5.6	B_8	3, 3, 3	Binding with Control OK
Base outside					10/7	

		S.T.A.	H Watch	S Watch
Mar. 24	12	-45.9	+24.0	+20.9
Mar. 25	12	-46.2	+26.2	-29.8 adv. 1m

Date ..... 1937 Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Ini
	Good Friday, March 26-27, M-L.										
1789	HD 80064	09 12.5	+11 55	I - 12½	Astra II	0.10	set -6.5	8.00	9.10	4	C 16 E
1790	" 97244	11 06.5	+14 56	"	"	"	-6.5	9.14	10.55	1	0 45 E
	~~100518~~	11 29.0	+11 35	"	"	"				2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		I Leo	Orion 25	Appeared to be clearing about 10.30-11.0			
		wasted until 12.30 but clouded up solidly. Dargaville.					
		Clouds at	sunset	delayed opening.			N.W. wind.
9.0	0.06E	11	46	0-1	6.29	A_0	1½-1½-1½
9.55	0.14E	14	46	0-1	6.43	A_5	1½-1½-1½ scattered cirrus clouds 9.50- thick at 10.55
					6.52	A_2	
							closed up 11.05. snow storm coming up from the north.

Date Saturday March 27-28 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
							set			
1791	HD 56200	07 11.0	+16 18	I-12	Astra II	010	-4.5			2
1791	HD 77692	08 59.0	+59 45	I-12	Astra II	010	-4.5	9 10	10 20	2
1792	93859	10 46.0	+57 07	"	"	010	-4.5	10 24	11 14	3
1793	93875	10 45.1	+59 51	"	"	"	-4.5	11 16	12 01	4
1794	99953	11 25.1	+57 17	"	"	"	-4.1	12 08	1 38	1
1795	119213	13 36.8	+57 42	"	"	"	-4.3	1 44	2 54	2

Clear most of day. Very strong N wind.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
			7.25	F5		Clouded over from SE very suddenly 7^h^ [illegible]
						Cloud drove 7^h39^ [illegible]
						Sky remained clear south of this in low N [illegible]
						Too low to get anything. Rest of day thick.
1 21W	+59 37	1	6.19	A5	1½ 1½ 1½	strong wind Clouds again.
0 30W	+[illegible] 52	2-3	6.54	G5	1½ 1½ 1½	Stays clear [illegible]
1 16W	+57 40	2-3	6.66	K0	1½ 1½ 1½	
2 14W	+57 07	2-3	7.24	F0	1½ 1½ 1½	Set on 10054; [illegible]
1 20W	+51 32	2	6.20	A2	1½ 1½ 1½	sky hazy up at R.10 a.m.; [illegible] thickening
						Cloud up at 3.45 hopeless.
						Spots 40°

			ΔOS.T.A.	H Watch	S. Watch
Mar. 29	12	—	-17.8	+11.4	-00.4

Cont[illegible] worked perf[illegible]; but the [illegible]
was driving so well that [illegible]
on 140[illegible] for [illegible] minutes

Date Monday March 29-30, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1796	HD 52708	06 57.2	+59 57	I-12	Ashn II	010	-2.0	7 13	8 43	3
1797	73190	08 32.0	+73 31	"	"	"	-2.2	8 47	9 57	4
1798	93859	10 45.1	+57 07	"	"	"	-2.2	10 01	10 46	1
1799	105693	12 04.9	+75 13	"	"	"	-2.1	10 52	11 52	2
1800	106677	12 11.0	+73 07	"	"	"	-2.0	11 54	1 24	3
1801	113049	12 55.9	+76 00	"	"	"	-2.0	1 23	2 38	4
1802	131265	15 25.9	+61 01	"	"	"	-2.0	2 45	3 55	1
1803	141932	16 23.0	+76 22	"	"	"	-2.1	4 05	5 25	2

String N wind increasing after dark.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 54 W	+ 59 54	1	7.54	K0	1½ 1½ 1½	[illegible]
	1 32 W	+ 73 24	2-3	6.93	A0	1½ 1½ 1½	
	0 09 W	+ 56 55	2	6.54	F5	1½ 1½ 1½	
	0 04 E	+ 75 01	1	7.78	F5	1½ 1½ 1½	Image burning forward + west dir. Never with 5 foot aperture since 11th.
	1 22 W	+ 72 54	1	7.55	K0	1½ 1½ 1½	
	1 52 W	+ 75 49	1-2	7.19	K0	1½ 1½ 1½	
		+ 60 54	1-2	7.26	K5	1½ 1½ 1½	
	1 15 W	+ 76 17	1-2	6.98	A3	1½ 1½ 1½	

			ΔΘ S.T.A.	H. Watch	S. Watch
Mar. 30	12	—	-48.2	+14.0	+07.8

a.f. 4.5

Date Tuesday Mar 30-31, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1804	HD 63312	7 43.2	46 03	I-12	Astra II	1010	0.7°	8 09	9 39 3
1805	91181	10 26.5	44 43	—	—	—	0.7	9 42	11 52 4
1806	110500	12 37.5 37.7	46 25	"	"	"	0.7	11 55	1 25 1
1807	124546.	14 09.4	31 40	"	"	"	0.6	1 30	3 00 2

Nots 45 2.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
9 39	08 W	45 58	1-2	7.12	A_2	1½ 1½ 1½	Clouds after sunset. Cleared off about 7.45. haze thick in south.
11 52	38 W	44 30	2-3	7.76	A5	1½ 1½ 1½	
25	02 W	46 14	2-3	7.00	A_2	1½ 1½ 1½	haze, clearing late in exposure
1 15	34 W	31 29	2-3	7.25	A_0	1½ 1½ 1½	sky hazy up again. Thick at 3.00 cloud at 3.30

			ΔO S.T.A.	ΔO H. Watch	ΔO S. Watch
Mar. 31	12	—	-48.4	+09.0	+17.6

Date Wed March 31 - April 1 1937 Hd - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
H 1808	HD 78661	09 04.4	11 58	I-12	Extra U	0.10	+2.0	8 05	8 55 3	
1809	39993	10 18.1	30 07	"	"	"	+2.3	8 59	10 09 4	
- 1810	[illegible]	11 03.7	23 52	"	"	"	+2.3	10 12	10 56 1	
1811	105388	12 03.0	31 37	"	"	"	+2.1	11 00	1 20 2	
1812	116594	13 [illegible]5	12 57	"	"	"	+2.0	12 [illegible]	1 49 3	
1813	140612	15 39.5	46 04	"	"	"	+2.3	1 57	2 57 4	
1814	141930	15 46.6	44 49	"	"	"	+2.2	3 01	4 31 1	
1815	150030	16 32.3	46 49	"	"	"	+2.2	4 35	5 20 2	

Thurs April 1-2 Hd - Rain.

Snowing at sunset. Clearing suddenly circa 7.30

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	W 7m	11 50	1	6.74	F_0	1½ 1½ 1½	Winding very hard 8.35 – 8.[illegible] (snowing meanwhile)
	W 7m	29 56	2	7.46	K_0	1½ 1½ 1½	
	W 10m	23 39	2.	6.45	A_2	1½ 1½ 1½	Winding hard 10.45 – 12.50
	0 [illegible] W	31 25	2	7.24	A_0	1½ 1½ 1½	
	0 47 W	12 46	2	7.50	K_0	1½ 1½ 1½	
	0 24 E	45 58	2	7.18	F_0	1½ 1½ 1½	
	1 03 W	44 43	2-3	7.57	A_0	1½ 1½ 1½	
	1 06 W	46 45	2·3	6.73	G_5	1½ 1½ 1½	

			ΔΘ S.T.A.	ΔΘ M. Watch	ΔΘ S. Watch
April 1	12	–	-48·5	+12·8	-02·5 Adv. 1 min.
April 2	12	–	-48·6	+14·1	-28·4

Date Friday April 2-3, 1937 H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time ~~E.S.T.~~ Sidereal Time	Ending Time ~~E.S.T.~~		
1816	HD 112734	12 53.8	+ 28 52	I-12	Astro II	010	0.0	13 20	14 50	3	
1817	135438	15 10.0	+ 32 09	"	"	"	0.0	14 54	16 14	4	
1818	151732	16 44.1	+ 42 26	"	"	"	+0.1	16 17	17 37	1	
1819	152107	16 46.3	+ 46 10	"	"	"	0.0	17 39	17 49	2	
								0 51	2		
						EST		2	3		
						Time		3 42	5 02		
						-hour		5 10	5 30		
						Tn 1965					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Cloudy most of day; clearing aft midnight.
14 51	1 53 W	+28 41	0	6.75	A5	1½ ½ 1½	Hazy + clouds during this afternoon. Strong NW wind.
1	1 02 W	+32 02	1-2	7.40	K5	1½ 1½ 1½	
5	0 51 W	+42 22	2-3	7.50	M6	1½ 1½ 1½	
1 2	1 01 W	+46 07	3	4.92	A2	1½ 1½ 1½	Clouding over at close
							Spot to 45°
							N.B. Trains are clocked with Time; MT watch not running.
							S.T.A. M.Watch S.Watch
							April 3 10 — -48·8 -29·2 -24·0 Reset.

Date Saturday Apr. 3-4, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		
1820 F				I - 12	astra II	.010	+2°0			1	
"	HD 58729	7 21·8	15 30	—	—	—	+2·0	7 31	9 01	—	
- 1821	UV Leo	10 30·6	15 01	—	—	.020 M	+1·6	9 07	11 30	2	
				Monday April 5-6 1937 —			Clouds + late rain.			H	
				Tuesday April 6-7 1937 — heavy clouds till after midnight - no sign of clearing — M							
				Wednesday - Thursday			Rain continued. Cloudy.				

Apr. 50

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
					14 9	Cloudy all afternoon cleared at sunset. Still considerable cloud and haze near horizon.
2 07 W	15 28	1	6·97	B8	K K 1/2	run dec. setting motion clock.
1 45 W	14 36	2	8·6	G5	1, 1, 1	Image at 9.30 - Thick - at 11.00 star gone at 11.30
						closed up at 1.00 raining lightly.

			Δ O.S.T.A.	M. Watch	S. Watch
April 5	12	—	-49·1	+30·0	-05·3
April 6	12	—	-49·6	-27·8 Adv. 1m	+03·4
April 7	12	—	-49·8	-27·0	+13·4
April 8	12	—	-49·8	-26·8	+21·4
April 9	12	—	-50·3	-26·3	+29·2
April 10	10	—	-50·2	-24·8	+30·8

Date Saturday April 10-11, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
1822	HD 99946	11 24.8	+30 32	I-72	A-tri II	010	+0.5	11 12	12 12	1	11 11
~~1823~~	" 123845	~~14 04.9~~	~~+16 05~~	"	"	"	+0.3	1 21		2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Cloudy much of day. Partially cleared several times in evening, but also several lightly overcast times.
02	1 18 W	+30 23	1-2	7.06 F0 1½ 1½	Started pairing area, n.g. Sky rapidly filling in at 12.05. clearing again about 1.00 – 1.15
		+15 56	2	7.09 F5 ½	sky filling in thick at 1.50 closed at 2.20

1937

Date Sunday April 11-12 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1823	HD 69788	08 13.5	+16 26	I-12	Ad. N	c : c	set +2.5°	7 30	8 10	1	16 W
1824	HD 68461	08 07.4	+16 49	"	"	"	+3.0	8 14	8 44	2	3° W
1825	HD 94631	10 50.4	+58 02	"	"	"	+2.8	8 52	10 02	3	11° W
1826	HD 107415	12 15.8	+16 05	"	"	"	+2.6	10 15	11 15	4	1° W
1827	HD 114092	13 03.2	+28 04	"	"	"	+2.5°	11 20	12 15	1	1 H
1828	HD 134792	15 06.7	+29 37	"	"	"	+2.5	12 20	1 30	2	4 E
1829	HD 152812	16 50.6	+47 34	"	"	"	+2.5	1 36	2 26	3	24 E
1830	HD 153472	16 54.7	+42 39	"	"	"	+2.6	2 30	3 25	4	22 E
1831	HD 154713	17 03.1	+43 57	"	"	"	+2.4	3.28	4 00	1	13 E
1832	HD 163075	17 49.2	+46 41	"	"	"	+2.5	4.05	5.10	2	29 E

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
56m W	16 20	3-2	6.79 A_0	1½-1½-1½	No signs of wing slits in mirror
1h 36m W	16 44	2	6.90 G_5	1½-1½-1½	
11m W	57 51	3	7.56 G_5	1½-1½-1½	Clock following well without correction
1m W	15 54	2	7.51 K_0	1½-1½-1½	
0 12 W	27 54	2	7.58 K_5	1½-1½-1½	
1 36 E	29 29	2	7.53 F_5	1½-1½-1½	
1 24 E	47 31	2	7.30 K_0	1½-1½-1½	
0 23 E	42 37	2	7.45 K_2	1½-1½-1½	
0 01 E	43 54	2	6.36 A_0	1½-1½-1½	
0 24 W	46 40	2	7.57 K_0	1½-1½	

			ΔOS. T.A.	ΔOH watch	ΔOS. watch
Apr. 12	12	—	+23.0	−23.0	−14.0 Adv. 2m.

Date Monday april 12-13, 1937 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set	Set				
1833	H.D. 73190	08 32.6	+73 31	J-12	Astro II	010	+9.5	7 35	8 25	1	
1834	73797	08 35.1	+73 39	"	"	"	+9.3	8 28	9 38	2	
1835	106677	12 11.0	+73 07	"	"	"	+9.5	9 53	10 53	3	
1836	105678	12 04.9	+75 13	"	"	"	+9.5	10 57	11 42	4	
1837	113049	12 55.9	+76 00	"	"	"	+9.5	11 45	12 55	1	
1838	119213	13 31.8	+57 42	"	"	"	+9.1	1 01	1 31	2	
1839	132445	14 54.1	+44 52	"	"	"	+9.4	1 36	2.40	4	
	Focus Test										

Wed April 14-15, 1937 Rain

Thurs. April 15-16 1937 Hal-L

Rain and snow early. Clear in N and W (too low) 9.00 to 10.00, then falling in.

(Opened 10.50 moved)

Hazy S wind, much fog passing.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 5 W	+73 24	1	6.93	A0	1½ 1½ 1½	Mirror very antigmatic. 3d Eyepiece, 50 to ff down.
~~0 15 W~~	+73 31	1	7.46	A2	1½ 1½ 1½	
0 15 E	+72 54	1-2	7.55	K0	1½ 1½ 1½	Hazy and low smoke.
0 41 W	+75 20	1-2	6.78	F5	1½ 1½ 1½	
1 03 W	+75 49	1	7.19	K0	1½-1½-1½	Sky thickening at 12.25 clearing again at 12.50
0 58 W	+57 31	1	6.20	A2	1½-1½-1½	
0 50 W	+44 42	1	7.28	A2	1½-1½-1½	Sky thickening at 2.15 clear again 2.30
Outside through base					12-7	

Closed at 3.15

			S.T.A.	H. Watch	S. Watch
April	13	12 —	50.9	-37.0	-05.9
April	14	12 —	-51.1	-39.0	+01.9
April	15	12 —	-51.4	-40.1	+07.8

Date Thurs April 15-16, 1937 Hd - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1840	HD 112887	12 54.8	28 37	I-12	Astra II	0.10	Set +2.5	11 06	12 20	1	0 41
1841	" 130044	14 40.9	45 36	"	"	"	+2.5	12 25	1 20	2	0 [illegible]
1842	" 142926	15 52.2	42 51	"	Astra VIII	"	+2.6	1 25	2 30	4	0 [illegible]
1843	" 152877	16 51.0	28 17	"	Astra II	"	+2.5	2 35	3 35	3	1 [illegible]
1844	" 152896	16 51.1	29 12	"	"	"	+2.5	3 40	4 55	1	2 14

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	0 41 W	28 25	0	7.51	F_5	1½, 1½, 1½	
[illegible]	0 05 E	45 28	0	7.12	F_0	1½, 1½, 1½	
[illegible]	0 06 E	42 45	0	5.6	B_8	4, 4, 4	Seeing terrible all night.
[illegible]	0 00	28 14	0	7.40	F_0	1½, 1½, 1½	
[illegible]	1 21 W	29 08	0	7.44	A_5	1½, 1½, 1½	

Date Friday - April 16-17, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1845	UV Leo	10 30.6	+15 01	I – 12	astra II	.020 M	+7°.2	7 51	10 41 2	
1846	HD 110503	12 31.5	+46 25	–	–	.010 L	+6.3	10 48	12 03 3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 28W	+14 37	2-0	8.6 G5	1, 1½, 1	haze came in beginning to clear at 10. haze getting thicker stars almost
	X 30W	+46 14	0	7.00 A2	1½, 1½, 1½	1200 closed at 12.30

1937

Date Sunday April 18-19 Y-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						set		wc		
1847	HD 107415	12 15.8	+16 05	I 12	Astria II	010	+6.8	9 52	11 02 4	15m
1848	HD 114092	13 03.2	+28 04	"	"	"	+6 5	11 07	12 17 1	43
1849	HD 134897 α Bootis	14 11.1	+19 42	"	"	"	+6.5		12 22 2	
	"								12 27	
1850	HD 134742	15 06.7	+29 37	"	"	"	+6.5	12 31	1.55 3	
1851	" 152812	16 50.6	+47 34	"	"	"	+6.4	2 00	2 55 4	
1852	" 153472	16 54.7	+42 39	"	"	"	+6.5	2 59	3 54 1	30
~~1853~~	" 154713	17 02 0	+43 57	"	"	"	+6.5	4 03	4 37 2	

Cloudy all day grad. clearing for [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
10	15m W	15° 56	2	7.51	I5 0	1½ 1½ 1½	M.T. [illegible] gal by my own so please check
11	0 43 W	27 54	1	7 58	K5	1½ 1½ 1½	
11		19 32	2			4	setting 2½ exposure approximately 7 sec.
12			"			4	" 7½ " " 10 sec.
1.5	0 18 W	29 29	2	7.53	F5	1½-1½-1½	
2.5	0 25 E	47 31	2	7.30	K0	1½-1½-1½	Clock erratic, control necessary
3	0 30 W	42 36	2	7.45	K2	1½-1½ 1½	
-	———	43 55	2-0	6.36	A0	1½-1½ 1½	plate made useless by accidental fogging Longwarts.

	M.T.A.	S.T.A.	M. Watch	S. Watch
April 19	+07·0	- 52·2	+03·6	+ 29·0

Date Monday April 19-20, 1927 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set	Set				
1852	HD 73797	08 35.1	+73 39	I-12	Astra II	0.10	11.5	7 47	9 07	3	
1854	105678	12 04.9	+75 13	"	"	"	11.5	9 11	9 56	4	
1855	106777	12 11.0	+73 07	"	"	"	11.3	9 58	11 08	1	
1856	113049	12 58.9	+76 00	"	"	"	11.4	11 11	12 01	2	
1857	119742	13 40.6 ~~41.7~~	+60 39 ~~38~~	"	"	"	11.3	12.03	1 08	3	
1858	138265	15 25.4	+61 01	"	"	"	11.3	1 14	2 09	4	
1859	145360	16 05.5	+73 25	"	"	"	11.0	2 12	3 22	1	
1860	151746	16 14.2	+74 05	"	"	"	11.0	3 25	4 37	2	
1861	152107	16 46.3	+46 10	"	"	"	11.2	4 30	4 57	3	

Tuesday April 20-21 M-L

Light haze and cloud. Moon and bright stars visible.

Opened dome but too thick to start exposure.

Wed April 21-22 Hd Rain.

Tuesday April 22-23 H- Clouds + fog.

Clouds off & on, 57 [illegible] rain.
West wind

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 02 W	+73 22	0	7.46	A_2	1½ 1½ 1½	Guiding was not very good, even at 11. Light behind – used until after 8[30]. Seeing unsteady all evening
	0 37 E	+75 01	0-1	6.78	F_5	1½ 1½ 1½	
	0 29 W	+72 55	0-1	7.55	K_0	1½ 1½ 1½	
	0 37 W	+75 49	1	7.19	K_0	1½ 1½ 1½	
	1 00 W	+60 28	1	7.06	A_0	1½ 1½ 1½	
	0 17 W	+60 54	0	7.26	K_5	1½ 1½ 1½	Seeing blowing up – all an image of wind
	0 51 W	+73 19	0	7.37	F_5	1½ 1½ 1½	
	1 15 W	+74 00	0	6.82	A_2	1½ 1½ 1½	
	1 25 W	+46 56	0	4.92	A_{2p}	1½ 1½ 1½	
							Left 4[45]

NB. Was spinning mirror at first found a large crust of water on it, mostly at West, also center (in normal position).

April 20 12 +07.0 -52.3 -02.1 -25.5
Reset

Note M.T. Watch not keeping good time.

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Date Friday April 23-24 1937 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle East
1862	HD 130044	14 40.9	45 36	I-12	Extra II	010	+3.5	12 39	1 19	4	W 1h
1863	130945	14 45.8	46 32	"	"	"	+3.7	1 21	1 55	1	0 5m

R.A. setting clutch gave out while setting on last star. A tooth clutch broke & shop was prepared to do same. Sun working order when I left at 5.30 A.M.

Logsdon.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθS.Watch	ΔθM.W (new)
W 26m	45° 28	2 → 1	7 1/2	F_0	1½, 1½, 1½	April 21	12	+07.1	-52.5	-18.3	
0 58 W	46 23	2-1	6.18	F_5-	1½, 1½, 1½	April 22	12	+06.6	-52.8	-07.8	
						April 23	12	+07.4	-53.0	-24.0 (Reset)	+15.4

Think this must be 1 minute out J.G.B.

Clouds during late half of plate 1563 at ca 1528 ST but not worth storing. Cleared off around 23h and appeared to remain clear until dawn.

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Remarks
			Saturday - Apr 24-25 M							
	Haze and clouds - cleared a little at sunset but still a good deal									
	of light cloud - very strong E wind									
	Thick at 9.30.									
			Sunday Apr 25 - 26							
	Rain all day Sunday and till 11 P.M.									
	cleared about 2 A.M. D.S.T. but everything wet									
	clouded later -									
			Monday April 26-27							
			Cloudy; no clearing, rain							
			Tuesday - April 27-28 - M							
			clouds and rain.							
	Wed April 28-29 - Hd.									
	Cleared for 15m at 11 or 2 ST Cleared to thick haze at 2 AM Thick 2.30 HI									

Hour Angle End	Declination	Seeing	Ptg. Mag.		

REMARKS

	C.T.	ΔΘ.M.T.A.	ΔΘS.T.A	(new) ΔΘM. watch	ΔΘS. watch
April 24	10	+06.4	-53.3	+25.4	-19.1
April 26	10	+05.9	-53.5	+43.0	-03.5
April 27	12	+05.5	-54.3	+54.5	+03.7
April 28	10	+05.1	-54.2	+64.6	+10.0
April 29	10	+05.0	-54.5	+73.2	+18.1

Date Thurs April 29-30, 1971 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Int
1864	Focus			I-12	Astra II	010	+13.2	~~7 55~~			
	HD 91130	10 26.2	32 54	"	"	"	+13.2	7.55	8.09	2	
1865	98398	11 14.0	13 ~~45~~ 56	"	"	"	+13.5	8 14	9 24	3	
1866	106926	12 12.7	15 42	"	"	"	+13.6	9 29	10 29	4	
1867	116594	13 19.5	12 57	"	"	"	+13.2	10 32	11 32	1	
1868	130044	14 40.9	45 36	"	"	"	+13.3	11 36	12 16	—	
1869	142926	15 52.2	42 51	"	Astra II	"	+13.2	12 22	1 52	3	
1870	155092	17 09.4	21 23	"	Astra II	"	+13.9	1 57	2 57	1	
1871	164 ~~453~~ 506	17 61.4	28 45	"	"	"	+13.3	3 10	4 25	2	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
bare outside					10/7	Temp 26.32 Tilt 19.5
E 6m	32 43	4	5.81	B_9	1½ 1½ 1½	
W 22m	13 45	3	7.58	F_8	1½ 1½ 1½	
W 33m	15 31	3	7.53	K_0	1½ 1½ 1½	
W 25m	12 45	3	7.50	K_0	1½ 1½ 1½	
0 1E	45 28	3	7.12	F_0	1½ 1½ 1½	
0 13W	45 45	3	5.56	B_8	4 4 4	
0 06W	28 19	3	7.33	F_2	1½ 1½ 1½	
0 42W	28 44	3	7.43	A_2	1½ 1½ 1½	

		M.T.A.	S.T.A.	M. Watch	S. Watch
April 30	10	+05.1	-54.8	+1m 22.2s	+24.0
				Adv. 1m	
				+22.2	

Date Friday Apr 30 - May 1, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 1872	UV Leo	10 30.6	+15 01	I-12	Astra II	.020 M	+13.7°	8 12	10 28	3	2 11
1873	HD 134305	15 04.0	+12 52	—	—	.010 L	+13.6	10 35	11 45	1	1 32
1874	133909	15 019	59 53	—	—	—	+13.5	11 52	1 08	1	1 [illegible]
- 1875	Mars	16 (1937) 07.4	-20 54	—	Astra IIX	.060 L " L " L " M " M " M " S " S " S	+13.5	1 20 1 23 1 24	1.25.30	3	
- 1876	Mars	"	"	—	—	.040 L " L " L " M " M " M " S " S " S		1 35 1 36½ 1 38	1 39	4	
- 1877	Mars	"	"	—	—	.140 white light		1 45		1	
- 1878	Mars	"	"	—	—	.010 white light		1 55		1	
1879	HD 163219	17 50.0	30 23	—	Astra II	.010 L	+13.6	2 04	3 24	2	
[illegible]	15 [illegible] 451	15 14.8	15 47	"	"	"	+13.2	3 29	4 55	3	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 10 W	+14 36	2-1	8.6	G5	1, 1, 1	very stary worst yet except 1902-04 Stop 5 1/2 rays in north corner with varying [illegible]
1 3 E	+12 45	2-3	7.24	A3	1½ 1½ 1½	
0 17 W	+59 46	3	7.32	A2	1½ 1½ 1½	
	−20 53					

Setting	Exp.	
1	5 s	
1.5	10 s	Stop 450 s
2	15 s	
3	5 s	
3.5	10 s	
4	15 s	
6	5 s	
6.5	10 s	
7	20 s	
1	5 s	
2	10	Stop 45 s
3	20	
4	5	
5	10	
6	20	
7	5	
8	10	
9	20	
5	5 s	Stop 45 s
5	30 s.	Stop 45 s.

			very unusual structure			10 s	
0 10 E	30 24	2-3	7.54	A3	1½ 1½ 1½		
2 W	15 45	3	7.67	A3	1½ 1½ 1½		

Date Saturday May 1-2, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1881	HD 105678	12 04.9	+75 13	I-12	Astra II	.010	set +16.8	10 16	10 46	4	
1882	106677	12 11.0	+73 07	"	"	"	+16.8	10 49	11 29	1	
1883	118049	12 55.9	+76 00	"	"	"	+16.8	11 32	12	2	
1884	132560	14 54.7	+58 02	"	"	"	+16.8	12 17	1 27	3	
1885	145368	16 05.5	+73 25	"	"	"	+16.8	1 32	2 47	1	

175± Visitors; showed α Lyrae + M 3 with 74"
R.S.N. showed Spots with 4"
Light shows only in evening.

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							C.T. ΔθM.T.A. ΔθS.T.A. ΔθM.Watch ΔθS.Watch
							May 1 19 +05.7 −54.9 +34.5 +34.5
							Telescope ½ of time; 50 the off d + ran.
	1 00 W	+75 01	5	6.78	F5	1½ 1½ 1½	Cyclone motor driving too well; had to put on 3 ½ d.
	1 38 W	+72 54	4	7.55	K0	1½ 1½ 1½	wk N wind, seeing starting to deteriorate
	1 32 W	+75 48	4	7.19	K0	1½ 1½ 1½	
	0 53 W	+57 54	3	7.47	F2	1½ 1½ 1½	
	1 04 W	+73 19	3	7.37	F5	1½ 1½ 1½	haze, thickn at 2.20
							Sp t 45s
							a narrow N-S drift across moon during

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1937

Date Sunday May 2-3 Y - T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
1886	HD 94631	10 50.4	58 02	I-12	Astra II	010	+18.6°	8 01	9 19 2	
1887	HD 114723	13 07.3	32 39	"	"	"	+18.6°	9 28	10 38 3	
1888	HD 120702	13 46.0	48 02	"	"	"	+18.4	10 48	12 00 4	
1889	HD 134792	15 06.7	29 37	"	"	"	+18.7	12 08	1 28 1	
1890	HD 154228	16 59.1	13 44	"	"	"	+18.7	1 45	2 10 2	
1891	HD 156653	17 13.7	17 26	"	"	"	+18.6	2 20	2 45 3	
	HD 162880	17 48.2	44 56	"	"	"			4	
1892	HD 162668	17 47.1	30 01	"	"	"	+18.5	3 21	4 15 4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
19	52m W	57 51	2	7.56 G8	1½ 1½ 1½	Sp. 12 45s
	6m E	32 26	1	7.16 F8	1½ 1½ 1½	
	0 35 W	42 30	1	7.18 F0	1½ 1½ 1½	
	0 46 W	29 25	2	7.53 F5	1½ 1½ 1½	
	0 25 E	13 41	2	5.86 A0	1½ 1½ 1½	
	0 04 E	17 24	2	5.90 A0	1½ 1½ 1½	
				7.50 F0		After searching for 20 minutes by hand for this star I gave it up. and made a new pin for clutch that will without difficulty in following star. Logout.
	0 52 W	30 01	2	6.74 A2	1½ 1½ 1½	

		M.T.A.	S.T.A.	M. Watch	S. Watch
May 3	10	+06:0	-55:5	-06:2 Adv. 1 min.	-13:3 Adv. 1 min.

Date Monday May 3-4, 1937 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1892 F	Focus test			I-12	Astro II	set 010	21.0			4	
1893	HD 76216	08 49.7	+ 58 36	"	"	"	21.0	8 04	8 54	1	
1894	99946	11 24.8	+ 30 ~~27~~ 32	"	"	"	20.7	8 58	9 58	2	
1895	112734	12 53.8	+ 28 52	"	"	"	20.8	10 01	10 [illegible]	3	
1896	113021	12 55.7	+ 32 18	"	"	"	20.8	10 38	11 32	4	
1897	128660	14 33.1	+ 43 16	"	"	"	20.9	11 36	12 41	1	
1898	135438	15 10.0	+ 32 09	"	"	"	20.6	12 45	1 45	2	
1899	150203	16 34.4	+ 43 46	"	"	"	20.8	1 48	2 55	3	
	164198	17 51.3	+ 45 21	"	"	"	20.7	2 58		4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	Instal. Star Image			Sp 10.7	Trans.	26.29. Trans OK. Spot ↓ 45°
	2 29 W	+58 29	2	6.96 A_2	1½ 1½ 1½	Image.
	1 00 W	+30 20	3-4	7.06 F_0	1½ 1½ 1½	Image in process of fading. Cloud. Star gone 9h-1 Poor definition.
	0 38 W	+28 40	3	6.75 A_5	1½ 1½ 1½	
	1 05 W	+32 08	3-4	7.50 G_5	1½ 1½ 1½	
	0 35 W	+43 07	3-1	7.20 F_8	1½ 1½ 1½	Image blowing up during latter half.
	1 02 W	+32 02	1-2	7.40 K_5	1½ 1½ 1½	
	0 49 W	+43 42	1-2	7.21 A_2	1½ 1½ 1½	Light Cloud.
		+45 22	2	7.42 F_7	1½ 1½	Clouds up thick at 7.40

	C.T.		M.T.A.	S.T.A.	M. Watch	S. Watch
May 4.	9	M.T. Watch indicator moved from "central" one division towards "fast".				
	10		+05·6	-55·8	+03·5	-08·8
May	5		+05·5	-56·2	-14·0	-02·2

Date Wed May 5-6, 1937 Hd-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
~~1900~~	~~HD 99832~~	~~11 24.0~~	~~30 58~~	I-12	Cutie II	010	+13.1			

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
			7.44	F_2	Couldn't find it on plate account of thickening clouds
					Remained thick & closed 11.15 EST
					Still thick not 2.00 "

	C.T.	ΔθM.T.A.	ΔθS.T.A.	Δθ M. Watch	ΔθS. Watch
May 6	.0	+04.1	-56.6	-31.2	+04.6
May 7	.0	+03.8	-57.0	-50.2	+12.2

Watch

M.T.	S.T.
+0.2 s	+0.7 m

May 8	6	+04.0 s	-57.2 s	-1 12.0 m s	+21.4

Watch

M.T.	S.T.
-02.3 s	+00.6 m

15B

Date Sat. May 8-9, 1937 Hd- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1900	HD 112887	12 54.8	28 37	I-12	Astra I	010	12.4	9 57	18 07	1	4½
1901	124883	14 11.0	28 12	"	"	"	"	11 21	12.30	2	1½ W

50 visitors. Cloudy at first but cleared & Lec. Later cleared & showed M3 (M3 very good). R.N.N. with 4". 154.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
11 0	W 1 4	28 24	1	7.51	F_5	1½, 1½, 1½	Neil McNabb phoned 11.10 reporting this discovery on May 5 of a "new star" 8m at approx 8h 18 +27°. He has reported it by wire to Harvard but received no reply to date. I looked for it with binoculars but saw nothing in that region not on 1½ D. charts, but clouds were coming over and I lost the field before making careful examination. — Hdn.
11 2	1.06 W	28 02	1	7.22	A_2	1½, 1½, 1½	[There is a star at 8°9 +26° +0 (30 of reg) and one at 8°10 +26°46' (~~illegible~~) which might not be on McNabb's charts — both about 8m] — McNabb — phone no is Acton 136.

Thick at 12.20 Closed 1.00

155.

1937

Date May 9-10 Sunday Y, L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1902	HD 114723	13 07.3	32 39	I-12	astra II	010	+9.6	09 47	11 07	3	
1903	HD 131764	14 50.4	30 28	"	"	"	+9.5	11 13	12 33	1	
	HD 154713	17 02.0	43 57	"	"	"		12 42		2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	5^{m}0 W	+32 26	0	7.16	F8	½ ½ ½	
	0 33 W	+30 19	0	7.18	F2½	1½ 1½	scattered clouds shining opposite, heavy bank lying across northern sky. Filling in rapidly, thick at 12.50 Closed at 1.50 still thick.
				6.36	A0		

Y+H watched for fourth nova with 1"; no nova brighter than 7.5 within 1½° of position; probably none brighter than 8.0

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ M.T. watal	ΔΘ S.T. watal
May 10	10	+02.3^{s}	-57.7	-1^{m}42.0	+33.7

ΔΘ watal M.T.	ΔΘ watal S.T.
-06.7^{s}	+0.5^{m}

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Date Monday, May 10-11 1937 H. L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set					
1904	HD 213126	22 24.2	+87 34	I-12	Actu II	010	+9.5	8 15	9 25	1	
1905	96870	11 04.2	+88 11	"	"	"	+9.7	9 31	10 46	2	
1906	107192	12 14.4	+88 15	"	"	"	+9.7	10 50	11 25	3	
1907	5714	00 55.6	+88 29	"	"	"	+9.8	11 30	12 05	4	
1909	145368	16 05.5	+73 25	"	"	"	+9.7	12 09	1 31	1	
1908	143432	16 23.0	+76 22	"	"	"	+9.2	1 25	2 35	2	
1910	151 746	16 44.2	+74 05	"	"	"	+9.1	2 37	B 47	3	
1911	152 107	16 46.3	+46 10	"	"	"	+9.2	B 53	4 07	4	

Tuesday - May 11-12 M

Breaking a little at sunset - closed over again Stars visible at times but very hazy

Put blower on mirror

Wed May 12 - Partly clear 10.00 - Might promise little and misses

Schuyler E of pin. 5th ... 22nd ...

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	X	(87 45)					
	2 06 W	+92 15	4	7.43	A2	1½ 1½ 1½	
	2 28 W	+88 00	3-2	7.89	B8	1½ 1½ 1½	
	2 04 W	+88 03	2	6.56	F0	1½ 1½ 1½	
	X	(88 40)					
	2 00 W	+91 20	2-1	6.54	A2	1½ 1½ 1½	
	0 15 W	+73 19	2-1	7.37	F5	1½ 1½ 1½	X Note how these plates are numbered. Winds increasing in velocity as evening wears on.
	1 28 W	+76 17	2-1-0	6.98	A3	1½ 1½ 1½	
	2 00 W	+74 00	1-0	6.82	A2	1½ 1½ 1½	
	2 11 W	+46 05	1-0	4.92	A2p	1½ 1½ 1½	

Dome is sweating badly — Hal.

	C.T.	ΔO M.T.A	ΔO S.T.A.	ΔO M.T. Watch	ΔO S.T. Watch
May 11	10	+02.2 s	-57.8 s	-1m 54.8s	+40.4

Watch M.T. -08.8 s S.T. +00.5 m

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
				Thursday, May 13-14, H							
				Clouds with rain all night.							
				Friday, May 14-15 H							
				Breaking at sunset, Thin clouds - cleared till 1°00.							

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					C.T. M.T.A S.T.A. M.W S.W.
					May 13 10 +01.3s -58.1s -2m36.2s -07.9s Adv 1m
					M. and S. W. M.T. S.T. -15.2s +0.4m
					May 14 10 +01.0 -58.1 -2m52.0s -02.1s
					M + S. Watch M.T. S.T. -19.0s +0.3m
+ 8° 1m					

Date Saturday-May 15-16, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Incl
- 1912	Mars				Astra II	.060 M	+12°8	11.34½		3	
						—					
						—			11.38½		
- 1913					—	-		11.45			
						-					
						—			11.50		
- 1914					—	—	+13.0	11.59		1	
						-					
						—			12.04		
- 1915					—	-		+12 11.11		2	
						—					
						—			+12 12.16		
1916	HD 153286	16 51.4	47 32	7-12½	Astra II	.010 L	+13.0	12.35	1.15	1	
1917	" 161569	17 41.2	+5 05	"	"	"	+13.1	1.51	2.45	2	
1918	" 176254	18 54.1	45 43	"	"	"	+13.0	2.49	4.07	3	

Showed moon No 3, M51. About 50 visitors.
with 24-in.
Dome with finder.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Filter	Exp.	REMARKS	Position in Field
		-20 43				38A	0.5		A
							1.0		B
							1.5		A
							2.0		B
							2.5		A
							3.0		B
						38A	0.5		A
							1.0		B
							1.5		A
							2.0		B
							2.5		A
							3.0		B
							3.5		A
			for A, low limb not on darkest portion which could be seen fairly well.			38A	0.5		A,
							1.0		B
							1.5		A,
							2.0		B
							2.5		A
							3.0		B
						38A	0.5		A
							1.0		B
							1.5		A
							2.0		B
							2.5		A
							3.0		B
	0 07 W	+47 29	2-1	6.74	A2P	1½ 1½ 1½		Seeing unsatisfactory.	
4	0 15 W	+45 04	1	6.39	B4	1½ 1½ 1½			
4	0 20 W	+45 48	1	7.21	A2	1½ 1½ 1½			

		M.T.A	S.T.A.	H.W.	S.W.	M.v.S.W. M.T.	M.v.S.W. S.T.
May 17	10	+00.6 s	-58.6 s	-09 m 47.0 s	+19.4 s	-22.8 s	+00 m 3

Date Monday May 17-18, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Inc
1979	HD 128660	14 33.1	+43 16	I-12	Agfa II	010	+9.4	10 40		4	

Clouds & rain all day; thinning out from sunset on.
Becoming fairly clear after 10^h15^m.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		+43 :7	1	7.20	F8	1/2	Filling in again shortly after start.

	C.I.	M.T.A.	S.T.A.	M. W.	S W
May 18	10	-0.7	-58.8	-4^m 07.0^s	+28.0

M.S. Watch M.T.	S.T.
-23.1^s	+16.5^s

Date Tuesday, May 18-19, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Ha. cal
		1937	1937								
1919											
- 1919	Mars	15 44.3	-20 40	I 12	Ast. IX	.060 M	+10°.9	12.37		3	
					—	—					
					—	—					
					—	—			12.53		
- 1920					—	—		12.44		4	
					—	—					
					—	.060 L					
					—	—			12.49		
- 1921					—	.060 M		1.50		1	
					—	—					
					—	.060 L					
					—	—	10°.9		1.06		
1922	HD. 163214	17 50.0	-30 23	—	Ast. II	.060 L	10.9	1.23	2.53	2	
1923	" 168481	18 14.8	-15 47	-	"	"	10.6	3.00	3.55	3	

clouds all afternoon – cleared after sunset. opened at 9.00 but clouds came over before could set. still cloudy at 12.00

Hr. ∠ end	Decl.	Seeing	Ptg.	Sp.	Comp.	Remarks
setting	Exp.	with			Pos. on Disk	cleared up fairly after 12.00 though still light & clouds
1 0	5 sec		38A		A	on plates 1919, 1920, 1921
·5	—				B	
1.0	—		filter		A	
1.5	—				B	
2.0	—				A	spots 25 sec
2.5	—				B	
3.0	—				A	spectra with 38A filter 2 min
3.5	—				B	
0	3 sec				A	scale 15 sec
·5	—				B	
1.0	—				A	
1.5	—				B	
2.0	2 sec				A	
2.5	—				B	
3.0	—				A	light clouds just at end of this exp
3.5	—				B	
0	2 sec				A	
·5	—				B	
1.0	—				A	
1.5	—				B	
2 0	3 sec				A	
2 5	—				B	
3 0	—				A	
3 5	—				B	
0 29 W	30 25	1 – 2	7.54	A3	1½ 1½ 1½	
1 07 W	15 45	1 - 2	7.08	A3	1½ 1½ 1½	May 19 10 — M.T.A. -01ˢ.6; S.T.A. -58ˢ.7; M.W. -04ᵐ 25ˢ.5; S.W. +33ˢ.0; M+S W. M.T. -24ˢ.6; S.T. +00ᵐ.3

Date Thursday May 20-21, 1937 Hd - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1924	HD 112887	12 54.8	28 37	I-12	Astra II	010	12.3	8.22	9.32	4	W 1h
1925	123 845	14 04.9	16 05	"	"	"	12.4	9.37	10.27	1	E 2h
1926	127 539	14 26.9	18 05	"	"	"	12.1	10.30	11.30	2	W 27m
1927	142 926	15 52.2	42 51	"	Astra III	"	12.1	11.35	1.05	3	E 47m W
-1928	157 482	17 18.4	40 05	"	Astra II	"	12.2	1.10	1.40	1	E
-1929	165 645	18 01.9	41 56	"	"	"	12.3	1.43	2.28	2	W 1h W
-1930	169 028	18 17.6	51 18	"	"	"	12.5	2.34	3.25	3	W 1h W
	190 603	20 00.7	31 07	"	"	"				4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		
	W 11m	28 25	1	7.51	F_5	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
	E 4m	15 55	1	7.09	F_5-	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
	W 37m	17 55	1-2	7.58	F_5-	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$
	0 47 W	42 45	3	5.56	B_8	4, 4-4
	0 04 E	40 03	2-3	6.22	F_8	$1\frac{1}{2}$-$1\frac{1}{2}$-$1\frac{1}{2}$
	0 01 W	41 56	2-3	6.70	F_0	$1\frac{1}{2}$-$1\frac{1}{2}$-$1\frac{1}{2}$
	0 43 W	51 19	2	7.32	K_2	$1\frac{1}{2}$-$1\frac{1}{2}$ $1\frac{1}{2}$
				5.45	B_0	

REMARKS

	C.T.	M.T.A.	S.T.A.	M.W.	S.W	M+S.W. M.T.	M+S.W. S.T.
May 20	10	-02s.1	-58s.8	-4m 44s.0	+40s.0	-25s.2	+00m.2

Time throughout dry "Stromgren og Blaauw"

Shots $2\frac{1}{2}$m

I was unable to continue, my cold getting worse with a splitting headache. - Longmore.

	C.T.	M.T.A.	S.T.A.	M.W.	S.W	M+S.W. M.T. (Watch)	M+S.W. S.T.
May 21	10	-02s.4	-58s.6	-5m 02s.0	-00s.2 adv 1m	-25s.6	+0m.2

Date Friday - May 21-22, 1937, M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
1931	HD 84107	9 37.7	30 27	I — 12	Astra II	.010	+13°5			✓
1931	HD 133909	15 19	39 55	—	—	—	+13°5	9.13	10.33	✓

closed guard before sunset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Cloudy, couldn't see star. Later cleared - found side of hand of compound watch slipped. Got second side of watch from office
		+59 48	2	7.32	A2	1½	Still considerable haze and cloud about, cloud at 9.40 remained thick
							plate can probably be scrapped
							Thick all over with some lightening
							closed 10.45 shutter closed by motor but with great difficulty
							Put on Blower.

		M.T.A.	S.T.A	M.W.	S.W.	Watch M.T.	Watch S.T.
May 22	10	-03°.1	-58ˢ.9	-5ᵐ 23ˢ.0	-08ˢ.9	-27ˢ.0	-00ᵐ.4 Rest

Sat May 22-23. Cloudy with rain Had one minute.

Sunday - cloudy all day - part clear at 10 - thick at eleven, watched till one still cloudy

Date Monday May 24-25, 1937 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
							Set			
1931	HD 96870	11 04.2	+88 11	I-12½	astra II	010	- 15.2	8 30	9 45	4
1932	107192	12 14.4	+88 15	"	"	"	+ 15.2	9 49	10 24	1
1933	5914	00 55.6	-88 29	"	"	"	+ 15.2	10 30	11 05	2
1934	145268	16 06.5	+73 25	"	"	"	- 15.1	11 09	12 19	3
1935	149432	16 23.0	+76 22	"	"	"	+ 15.2	12 22	1 22	4
1936	[illegible]	16 44.2	+74 07	"	"	"	+ 15.1	1 55	2 35	1
	159389	17 29.1	+57 57							
1937	17654	18 31.0	+46 09	"	"	"	- 5.2	2 41	3 20	2
1938	172197	18 33.1	+43 08	"	"	"	- 15.2	3 24	4 59	3

Tuesday May 25-26

Clouds all evening — moon visible (E.S.T.)

12:00 but kept so thick one o may visit 6.

Wed May 26-27 clouds H.

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 21 W	+88 00	0-1-2	7.39	38	1½ 1½ 1½	Sky still ½ light in N.
	1 59 W	+89 63	2	6.56	F0	1½ 1½ 1½	
	× 58 W	(+91 19)	2	6.54	F2	1½ 1½ 1½	
	1 05 W	+78 19	2-3	7.37	F5	1½ 1½ 1½	
	0 52 W	+78 17	2-1	6.98	F2	1½ 1½ 1½	
	1 32 W	+74 00	3	6.92	F3	1½ 1½ 1½	
				7.27	F2		
		+71	3-4	6.66	F0	1½ 1½ 1½	
		+62	4	6.40	F5	1½ 1½ 1½	

		M.T.A	S.T.A	M.W.	S.W.	Watch M.T.	Watch S.T.
May 25	13	-04ˢ.5	-59ˢ.6	-6ᵐ21ˢ.0	+13ˢ.7	-27ᵐ.2	+0ᵐ.3

Put on blower

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Date Thursday May 27-28, 1937 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1939	HD. 110300	12 37.5	46 25	I - 12	Astra II	.010 L	+17°	8 54	10 52 4	2 41
- 1940	Mars	15 30.9	-26 23	—	Astra II	.060 L	+17.5	11 17	1	
									11 30	
- 1941	"	—	—	—	—	—		11 34	2	
									11 46	
- 1942	"	—	—	—	—	—		11 32	3	
							+17.3		12 03	
1943	HD 16 32-19	17 50.0	30 23	—	Astra I	.010 L	+17.4	12 34	2 14 4	2 41

cloudy all day – sun at present but still very hazy

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					1½ 1½ 1½ Watch M.T.A. S.T.A. M.W. S.W. M.T. S.T. s s m s s m May 27 10 -05 6 -60 2 -06 57 8 +27 8 +28 8 +0 2
				Photo. Eye	control clock behaving very badly lost nearly 3s in fixing it. main (polar) aimed to be at center of this area of pl. then just below for movement magnet.
		Filter 38A		C	6
				D	6
				C	6
				D	6
				C	4
				D	4
				C	4
				D	(blank)
		Filter 38A		C	2 2
				D	2
				C	2
				D	2
				C	12
				D	12
				C	12
				D	12
		Filter 78		C'	4 4
				D'	4
				C'	4
				D'	4
				C'	12
				D'	12
				C'	12
				D'	12
	0 26 W	+30 23	2	7.59 A3	1½ 1½ still very hazy daylight clouds – sky at 10
					cloud 2:30 just thin now clouds

scale 15 sec
to the pedestal with weights
filter 1202.

Date Friday May 28-29, 1937 Kd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1943 F,	Focus			I-25"	Astra II	010	14.6	10.30	AM 4	
1944	HD 116594	13 19.5	12 57	I-25"	Astra II	010	19.8	8.45	10 35 1	
1945	142926	15 52.2	42 51	"	"	"	20.0	10 40	11 16 2	
-1946	145849	16 08.1	36 41	"	"	"	19.9	11 19	12 29 4	
-1947	157492	17 18.4	40 05	"	"	"	19.6	12 33	1 13 1	
1948	142926	15 52.2	42 51	"	"	"	19.7	1 18	2 24 2	
1949	186340	19 38.7	60 16	"	"	"	19.7	2 31	3 17 3	
1950	γ^{5394} Cas	00 50.7	60 11	"	Process	010	19.7	3 34	3 56 1	
								3 37	3 43	
								3 45	3 55	

Sat eve. Changed to I-12

~~set focus 26.25 tilt 19.5~~

Tuesday noon changed to I-25 Hd.
I-12 focus was 26.28, Tilt 19.5

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
AM 4	outside Thru base.				4/3	setting 1	Focus 23.4 / 23.5 / 23.6 — best focus 23.38
			Tilt 23.25				
0 55	W 1h 20m	12 45	ave 2	7.50	K_0	3,3,3	
1 16	E 30m	42 45	3	5.6	B_8	3,3,3	
1 ½	W 26m	36 36	3	6.86	H_5	3,3,3	
1	0	40 04	4	6.22	F_8	3,3,3	
2 4	W 2h 39m	42 45	2	5.6	B_8	3,3,3	
3 7	E 15m	60 21	4	6.27	A_2	3,3	
3 30		60 23	4	2.01	Bop	no filters 8 8	setting 1 — spt 7m
3 43						8.7	" 5
3 57	Complete					2.8	" 9 — never again set this hour angle!

Comparisons on Thuban plates are weak

		M.T.A.	S.T.A.	M.W.	S.W.	Watch M.T.	Watch S.T.
May 28	13	-05.9s	-60.3s	-07m 45.0s	+32.7s	-30.2s	-0.3m
May 29	10	-06.5s	-60.4s	-07m 30.0s	+35.6s	-31.5s	+0.2m

/ some light clouds.

Cloudy 1:22 - 1:40. Call middle 2.04

Date Sat May 29–30, 1937 Hd

Plate No.	Object	RA. 1900	Decl. 1900	Inst.	Emul.	Slit	Temp.	Time Starting E.S.T.	Time Ending E.S.T.		Hour Angle End
1950F	Focus			I:2	Astra II	010	22.4			1	Vac out
1951	+D 141930	15 46.6	44 49	"	"	"	22.0	10 28	11 40	4	W 02m
1952	" 145891	16 08.3	13 04	"	"	"	22.0	10 52	12 36	1	W 37m
1953	" 165170	17 57.6	44 15	"	"	"	21.8	12 44	1 44	2	E 5m
1954	" 169028	18 17.6	51 18	"	"	"	21.9	1 52	2 42	3	W 35m
1955	" 180451	19 11.5	15 59	"	"	"	21.8	2 48	3 48	4	W 46m

about 70 visitors showed & Vir and M3. Rjn showed many Praesepe etc with 4½".

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Time Ending E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	bar outside					10/7	
11 43	W 02m	44 44	4	7.57	A_0	1½, 1½, 1½	setting 2 focus 26.2 } Tilt 19.5m
							" 1 " 26.3 } Focus 26.20 — good
12 ½	W 37m	12 59	3	7.04	A_3	1½, 1½, 1½	Having trouble with dec motions.
1 44	E 5m	44 15	3	7.56	F_2	1½, 1½, 1½	at 11:30 had phone call from Mr. H. Squirrel,
2 ½	W 35m	51 14	4	7.32	K_2	1½, 1½, 1½	18 Walter St. Toronto, reporting "bright streak"
3 03	W 46m	16 04	3	7.32	F_0	1½, 1½, 1½	7° SE of Mars as seen in 6" telescope. Its motion was rapid eastward i.e. "drifted into field when telescope not to east of it" Looked in vain for it with binoculars — Possibly a meteor train?

1937

Date Sunday, May 30-31 Y **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1956	HD 114092	13 03.2	+28 04	I-12	Ast a II	5-1 0.10	+24.2	8 35	9 35	1	-.° W
1957	HD 154713	17 02.0	+43 57	"	"	"	24.0	9 47	10 23	2	1h 0m E
1958	"	"	"	"	"	"	24.0	10 24	11 00	3	1h 0m E
1959	HD 163075	17 49.2	46 41	"	"	"	24.0	11 07	12 07	4	1h 20m E
1960	HD 162880	17 48.2	44 56	"	"	"	24 0	12 16	1h 16	1	0m E
1961	HD 166409	18 05.4	44 06	"	"	"	23.7	1 22	2h 02	2	0m W
1962	HD 165683	18 02 1	32 14	"	"	"	23 6	2 07	2 45	3	0m W
1963	HD 174621	18 46.3	43 37	"	"	"	23 7	2 50	3 54	4	22 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	45m W	27 54	3	7.58	K5	½ ½ ½	
	2h 25m E	43 54	3	6 36	A0	½ ½ ½	
	1h 49m E	"	3	6 36	A0	½ ½ ½	
	1h 28m E	46 42	3	7 57	K0	½ ½ ½	
	18m E	44 56	3	7 50	F0	½ ½ ½	Doubl. 5" look South Star. North star Water ruffles ∴ set
	10m W	44 06	4	7 06	F5	½ ½ ½	
	57 W	32 14	3	6.92	K0	½ ½ ½	
	22 W	43 40	3	7 57	B5	½ ½ ½	

Watch

	d	h	MTA s	STA s	MW m s	SW s	MT s	ST m
May 31	10		-07.5	-61.0	-08 09.5	+48.0	-34.5	+0.2

Date Monday, May 31 - June 1, 1927 H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1964	H.D. 106022	12 06.2	+29 06	I-12	Lots II	010	+25.1	8 34	9 04	1	
1965	112570	12 52.6	+46 44	"	"	"	+25.1	9 08	9 48	2	
1966	150203	16 34.4	+43 46	"	"	"	+25.0	9 55	10 55	3	
1967	151732	16 44.1	+42 26	"	"	"	+25.0	10 58	11 45	4	
1968	152153	16 46.6	+43 36	"	"	"	+25.1	11 51	12 [illegible]	1	
1969	152951	16 51.5	+41 41	"	"	"	+25.2	12 44	1 34	2	
	Same Cat					"					
1970	164899	17 58.3	+45 21			"	+25.2	1 39	2 17	3	
1971	180450	19 11.5	+30 21	"	"	"	+25.2	3 03	3 [illegible]	4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 13 W	+ 28 53	3	6.74	F_2	1½ 1½ 1½	Light Cirrus
	1 12 W	+ 46 33	2	7.22	K0	1½ 1½ 1½	
	1 22 E	+ 43 42	2	7.21	A_2	1½ 1½ 1½	Light haze
		+ 42 22	2	7.50	M4	1½ 1½ 1½	Haze - clouds
	0 12 W	+ 43 32	2-3	7.37	K0	1½ 1½ 1½	Light clouds
	1 00 W	+ 46 40	2-1-0	6.77	A_2	1½ 1½ 1½	" "
						12, 7	
	1 19 W	+ 45 22	1-2	7.42	B9	1½ 1½ 1½	Haze
	c 59 W	+ 30 26	2-3-4	7.45	M2	1½ 1½ 1½	"

	Δ O.M.T.A.	S.T.A.	M.W.	S.W.	Watch M.T.	S.T.
	s	m s	m s	s	s	m
June 13	-31.6	-01 01.5	-08 27.5	+49.7	-35.8	+0.2

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Date ~~Tuesday~~ June 1-2, 1937 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1972	HD123845	14 04.9	16 05	I-12	Astra II	010	22.5	8 39	9 39	1	2h 5m
1973	127539	14 26.9	18 05	"	"	"	22.3	9 43	10 50 (called it 10.38)	2	3h 24m 44s
		Wednesday, June 2-3, 1937				5-H-P	Cloudy all evening				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
9 37	E 5m. (32m)	15 55	0	7.09	F_5	1½, 1½, 1½	
10 52	W 44m	17 56	0	7.58	F_5	1½, 1½, 1½	Clouded suddenly 10.38
							Remaining Thick. Closed 12.10.
							R.A. setting not in good order.

	d	h	MTA s	STA m	s	MW m	s	SW s	Watch MT s	ST m
June 2	10	;	+30.5 ;	-01	02.6 ;	-08	43 ;	+52.4 ;	−38.0	+0.1
June 3	13		Bent -01.6	-01	02.4	-09	01	+60.0	−38.4	+0.2

185

Date Thursday June 3-4, 1937 S-H-P Julian Day

Plate No.	Object	R.A. ~~1900~~ 1935	Declination ~~1900~~	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
1974	NGC 5272	13 39.2	+28 43	Newt.	E 40			9 [illegible]	[illegible]	
1975	" 6205	16 39.2	+ 36 35					9 39	9 [illegible]	
1976	" 5904	15 15.1	+ 02 20					10 10	10 20	
1977	" 6218	16 43.8	- 01 50					10 36	10 46	
	λ Sgr	16 27.7	+02 07					10 49	10 57	
1978	λ Sgr	"	"					10 53	10 57	
	NGC 6254	16 53.6	-04 00					11 04	[illegible]	
1979	" 6205	16 39.2	+36 35					11 21	11 29	
1980	" 6402	17 34.1	-03 12					11 [illegible]	[illegible]	
1981	" 6779	19 14.0	+30 03					12 26	12 46	
1982	" 6402	17 34.1	-03 12					12 52	13 [illegible]	
	Pos 4412							1 26	1 27	
1983	NGC 6316	17 11.1	-05 01					1 49	2 18	
1984	" 6402	17 34.1	-03 12					2 [illegible]	2 [illegible]	
1985	" 6934	20 [illegible]	+19 11					2 [illegible]	3 [illegible]	
1986	" 7089	21 [illegible]	-01 07					3 21	3 [illegible]	
1987	" 6205	[illegible]	[illegible]					[illegible]	[illegible]	

Limits of E [illegible] δ −5 1° 50′
−4 2 00
−3

Set + adjusted to 11 hours

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 20 W	+ 28 39	Poor to fair				Time of strike + striking out of star. Check from observ[illegible]
	2 20 E	+ 34 22					← Experimented with speed of δ setting motor (22 for 1.2
							In per fair in RA setting shows off; confirmed by other pairs
	1 27 E	− 01 53	Poor				
	set δ 16 27.2			3.85	Ao		Trailed with δ setting motor for orientation
	1 03 E						
	0 [illegible] E						Poor guide star; poor pointing
	0 40 E						
	0 44 E						Observer in Dome. Referred to p 85 ff. Hour
	1 54 E						Observing
				6.35	K0		Trailed in δ
	1 24 W						Unable to see any Guide Star; finally [illegible]
	1 58 W						Refocused on pier
	0 42 E						
	1 32 E						Not guided
	2 32 W						

Date Friday June 4-5, 1937 S-H-P Julian Day

Plate No.	Object	R.A. ~~1900~~ 1935	Declination ~~1900~~	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Int
1988	NGC 6205	16 39.3	+36 35	Newton	E 40			9 46	9 56	
1989	" 5272	13 39.2	+28 43					10 02	10 12	
1990	" 5904	15 15.1	+02 20					10 19	10 29	
1991	6205	16 42	-01 50					10 42	10 57	
					Cloud					
1992	6205	16 39.3	+36 35					11 18	11 28	
1993	6254	16 53.6	-04 00					11 34	11 49	
1994	6402	17 38	-03 12					12 07	12 33	
1995	6779	19 14.0	+30 03					12 10	1 00	
	BS.C 7324	19 15.9	+30 54					1 02	1 24	
1996	6316	17 24.1	-05 01					1 15	1 [illegible]	
1997	6402	17 38.1	-03 12					2 05	2 35	
1998	6779	19 14.0	+30 03					2 52	3 12	
1999	6934	20 3.9	+07 11					3 17	3 37	
2000	7089	21 29.9	-01 07					3 40	3 44	

N.B. Times are by watch; should be corrected for plate corr. first exposures

Cloudy afternoon + early evening. Considerable haze still p. 188

Forecast - in 0.75 mm from last night.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						C.T. ΔθM.T.A. ΔθS.T.A. M.W. S.W.
2 28 E		Poor				June 4 10 -01ˢ·3 -01ᵐ 02ˢ·7 -09ᵐ 16ˢ·6 +04ˢ·3
0 58 W						Haze over region.
0 21 E						Haze.
1 2 E						Sky thick at start; haze gave way to thin cirrus (?) later. Enlarged focus till a star(?) just
		fair to poor				
0 45 E						
0 39 E						
1 36 E		fair				Focus on ☆ off.
1 44 E						
			6.48	A0		Trail in δ for exposure
1 01 W		good.				Hazy
1 21 W						Reference — B S C 1775
						Poor
0 27 E						
1 21 E						Not guided. Many plates do not show stars
						Poor seeing on plates taken

Date Saturday, June 5-6, 1937 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle East
2001	H.D. 133909	15 01.9	59 55	I-12	Astra II	.010	+20.5°			3

Hazy – few clouds in south and west.
About 70 visitors showed. γ Leonis, M 3, Mars with 74-inch

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		
				732	A2	

REMARKS

	C.T.	ΔΘ M.T.A.	ΔΘ S.T.A.	ΔΘ MW.	ΔΘ S.W.
June 5	19	+03.7^s	−01^m 03.1^s	−09^m 41.5^s	+10.7

watch

M.T.	S.T.
−42.0^s	+0.2^m

clouded up shortly just as about to start exposure.

closed dome at 11.00.

telescope is refocused after visitors depart

1937

Date Sunday June 6-7 Y Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2001	HD 120702	13 46.0	+43 02	I-12	Agfa II	010	+23.5	8 53	9 43	3	W
2002	HD 131764	14 50.4	+30 28	"	"	"	+23.3	9 48	10 48		
	Focus test				Outside thru base						
~~2003~~	~~HD 154228~~	~~16 59.1~~	~~13 44~~								

Miss Martin - check HD - 723 for duplicate

Finding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	37m W	42 53	3	7.18	Fo	½ 1½ 1½	Last ½ hour unst pic in 1 h setting being tracked
		30 19	2	7.18	F2	½ ½	Stop H-beginning at 10 20
						12-7	
							closed at 1 00
							~~Fog~~ closed again after 2 00
							C.T. M.T.A. S.T.A. M.W. S.W. WATCH H.T. S.T.
							June 7 10 ; +01s.1 ; -01m03s.8 ; -10m 10s.2 ; +10s.4 -44s.8 +0m.2

Date Monday, June 7-8, 1937 S-H-N **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1935	Declination ~~1900~~	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2003	NGC 5272	13 39.2	+28 43	Newtonian	E 40			9 20	9 30	
2004	" 6205	16 39.3	+36 35	"	"			9 36	9 46	
	BSC 6157	16 29.7	+35 22					9 51	9 52	
2005	NGC 5904	15 15.1	+02 20					9 58	10 08	
2006	" 6218	16 43.8	-01 50					10 17	10 32	
2007	" 6254	16 53.6	-04 00					10 36	10 46	
2008	" 6205	16 39.3	+36 35					10 53	10 58	
2009	" 6779	19 14.0	+30 03					11 09	11 29	
	" 6402	17 34.1	-03 12							

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 35 W		Poor?				Focussed on ☆ of Bootis. Very poor guiding star.
	2 08 E		Poor				
			"	Vis 6.5	K		Trail in δ for ☆ of Bootis (about 50°)
	0 22 E		Fair				☆ of Bootis broader
	1 26 E		"				Very hard to reach. Poor guiding star
	1 22 E		"				Hazy.
	0 56 E		"				Hazy
	2 58 E						Hazy guiding
							Clouds, getting heavier and heavier. Rain at 1:15 EST. Guiding stopped at 1:20 EST.

Watch

	MTA	STA	MW	SW	MT	ST
	d h s	m s		s	s	m
June 8	10 -01.5	-0 04.6	—	+25.9	-49.5	+0.1

Date Tuesday, June 8-9, 1937 S-H-N Julian Day

Plate No.	Object	R.A. ~~1900~~ 1925	Declination ~~1900~~	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2010	N.G.C. 6218	16 43.8	-01 50	Newtonian	E 40			11 52	12 12	
2011	6254	16 53.6	-04 00	"	"			12 05	12 25	
2012	5904	15 15.1	+02 20	"	"			12 18	12 38	
2013	6402	17 34.1	-03 12	"	"			12 32	12 52	
2014	6779	19 14.0	+30 03	"	"			1 10	1 30	
	I.C. 1324	19 16.0	+30 54					1 27	1 48	
2015	N.G.C. 6366	17 24.1	-05 01					1 46	2 06	
2016	2134	20 30.9	+07 11					2 25	2 45	
2017	6205	16 39.2	-01 25					2 52	3 07	
2018	7089	21 31.4	-01 07					3 13	3 33	
	~~N.G.C. 6760~~	~~21 34.2~~	~~-00 47~~							

Wednesday, June 9-10, 1937 Clouds - rain at night

Clouds + Thunderstorm first half of night.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 07 E		Very poor		3 lightning flashes during exposure
	2 11 W				clouds; guide star lost once. 2 lightning flashes
	2 03 W		Surface		
	0 16 W		↓		← Reformed on 5 Ophi.
	2 50 E				
	2 47 E		Poor		Final 50° in 5.
	1 42 W				4 guiding
	0 16 E				
	3 13 W				Very foggy in horizon. Unguided
	1 16 E				but no lights for good guiding,
					5 guiding except where noted
					Sky fogged over early in night

		C.T.	M.T.A	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June	9	22	-0.5	-1m 04.4	+36.7	-51.2	+0m.1
June	10	10	+0.5	-1m 04.2	+39.8	-52.0	+0m.1

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Date Thursday June 10-11, 1937 S-H-P **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2019	NGC 6218	16 43.8	-01 50	Newtonian	I 40			12 20	12 30	
2020	6254	16 53.6	-04 00					12 35	12 45	
2021	6402	17 34.1	-03 12					12 48	1 23	
2022	6779	19 14.0	+30 02					1 28	1 48	
2023	6366	17 24.1	-05 01					1 53	2 28	
2024	NGC 7857	20 30.8	+09 51					2 34	2 35	
	6934	20 30.2	+07 11					2 35	3 03	
2025	6205	16 37.3	+36 25					3 07	3 12	
2026	7089	21 29.9	-01 07					3 17	3 22	

June 11. The last four plates are blanks because developer [illegible] did not work in developing. Thrown away - 2023, 2024, 2025, 2026

Tracks all afternoon; started by getting all early finders; night: steadily thinning out with N wind. Losing my feet?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	C 44 W ?		V. Poor				
	D 49 W						
	D 47 W						2019 + 2020 doubtful
	D 28 E						
	2 02 W						2021 + 2022 doubtful
			Poor	6.4	A		Drizzle starting and finders 5, stars 50. Very hard to
	0 30 E						
	3 32 W						Unguided
	1 0 E						Unguided
							So guiding

		M.T.A	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June 11	13	-0.1	-1m 03.5s	+13.5s	+08.1s	-0.2m
					Reset.	

Date Friday June 11-12, 1937 5-17-N **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2027	N.G.C. 6205	16 39.3	+36 35	11-T-2	E 40			9 26	9 36	
2029	" 5972	15 39.2	+28 43	"	"			9 46	9 51	
2029	" 5904	15 15.1	+02 20	"	"			9 57	10 07	
2030	" 6205	16 39.3	+36 35					10 13	10 18	
2031	" 6218	16 43.8	-01 50					10 22	10 32	
2032	" 6254	16 53.6	-04 10					10 38	10 48	
2033	" 6402	17 34.1	-03 12					10 55	11 25	
2034	" 6779	19 14.0	+30 03					11 29	11 47	
2035	" 6402	17 34.1	-03 12					11 57	12 27	
2036	" 6366	17 24.1	-05 01					12 33	1 13	
2037	" 6402	17 34.1	-03 12					1 15	1 45	
2038	" 6779	19 14.0	+30 03					1 55	2 10	
2039	" 6934	20 31.9	+07 11					2 13	2 35	
	B.D. 7857	20 31.9	+07 51					2 40	2 41	
2040	N.G.C. 6760	19 07.7	+01 55					2 44	3 09	
2041	" 7089	21 29.9	-01 07					3 13	3 17	
2042	" 6205	16 39.3	+36 35					3 31	3 36	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	2 01 W		Fair			Focused on α Boötis	
	1 14 W						
	0 05 E						Landed 2027-28
	1 19 E						
	1 19 E						
	1 05 E						
	1 08 E						4 guiding
	2 22 E		Hazy, unsteady				← Refocus on T Cyg.
	0 06 E						Landed 2029 - 33
	1 13 W						← Refocus on T Cyg.
	0 01 E						N guiding
				6.4 9			
	1 07 W						5 guiding, not tracked
	1 10 E						} Not guided

Date Sat June 12-13, 1937 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
~~2043~~ 2043	HD 150030	16 33.3	46 49	I - 12	Extra II	010	21.6	~~10 47~~	~~11~~ 23	2	
2043	" "	" "	" "	"	"	"	"	11 23	12 03	1	
2044	" 169028	18 17.6	51 18	"	"	"	21.7	12 18	1 12	3	0
2045	" 174177	18 44.2	46 12	"	"	"	21.7	1 16	1 56	4	
2046	" 174504	18 45.7	45 09	"	"	"	21.8	1 59	2 55	1	
2047	" 219634	23 12.2	61 25	"	"	"	22.0	3 04	3 46	2	

about 150(?) visitors showed Mars (poor) and later M.13. RJN
showed moon etc with 4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							d h M.T.A. S S.T.A. m S S.W. Watch M.T. S S.T. m
11:12	E 5m	46 43	1→2	6.73	G_5	1½, 1½, 1½	June 12 10 -04.7 -01 04.4 +44.1 +05.8 0.0
2:31	W 3 5	"	2	"	"	1½, 1½, 1½	Forgot to draw slide! Some clouds.
1:22	0	51 17	ave 2	7.32	K_2	1½, 1½, 1½	Cloud while setting.
1:56	W 17m	46 12	2	6.47	A_0	1½, 1½, 1½	Haze
2:51	W 1h 15	45 08	2	7.12	F_0	1½, 1½, 1½	"
3:42	E 2h 20	61 34	1	6.44	B_8	1½, 1½, 1½	" and clouds.

While focusing Mars focusing motor quit. Result embarrassing! Began to work again when set on M13. Poor connection somewhere?

		M.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June 14	10	-02.0	-1m 04.8	-03.0 adv. 1m	+01.4	-0.1

Date June 14-15, 1937 Hal Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2048	HD 154160	16 58.7	14 41	I - 12	Astra II	010	19.0	10 28	11 38	1	2.7m
2049	157741	17 20.0	15 43	"	"	"	19.0	11 41	12 13	2	4.6m
2050	157935	17 21.2	16 29	"	"	"	18.8	12 16	1 00	3	4.5m
2051	167134	18 08.8	16 14	"	"	"	18.7	1 03	1 53	4	4.5m
2052	182239	19 18.6	14 44	"	"	"	19.0	1 56	2 26	1	2.2m
2053	219634	23 12.2	61 25	"	E 40	"	19.0	2 36	3 40	3	5.6m

Cloud and haze after exposure. Improved from 10.15.

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 39	E 7m	14 35	0	7.52	K_0	1½, 1½, 1½	
12 3	W 6m	15 38	1	6.23	B_9	1½, 1½, 1½	
1 5	W 57m	16 24	1	7.03	F_2	1½, 1½, 1½	
1 53	W 57m	16 13	1	7.14	F_5-	1½, 1½, 1½	some clouds Auroral streamers
2 26	W 21m	14 46	2	6.64	A_3	1½, 1½, 1½	~~spots 2m~~.
3 45	E 2h 19	61 34	3	6.44	B_8	3, 3, 3	spots 2m

A little doubt about 2048. I have taken star indicated in pencil on chart

		H.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June 15	10	-02s.5	-1m 05s.2	-06s.8	+0s.8	-0m.1

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Date Tuesday, June 15-16 1937 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2053 F,				I-12	Ast. II	.010	+21.8°				
2054	HD. 133909	15 1.9	59 55	—	—	—	+22.0	8 51	10 21	2	
2055	156341	17 11.9	16 47	—	—	—	+21.0	10 31	11 51	3	
2056	169169	18 18.3	14 57	—	—	—	+21.4	11 54	1 10	4	
2057	188651	19 51.1	29 56	—	—	—	+21.2	1 15	1 55	1	
2058	189086	19 53.2	30 36	—	—	—	+21.2	1 58	2 50	2	
2059	197961	20 42.0	46 00	—	—	—	+21.2	2 54	3 38	3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		base outside				1 2 / 3	focus O.K.
2 21 4	0 36 W	+59 45	2-1	7.32	A_2	1½ 1½ 1½	trouble with control heater - missing contact to make and break under magnet of control clock adjustable and heater not heating. Batteries on thermostat not fresh. Fresh ones
11 51 3	0 04 E	+16 42	1	7.5	A0	1½ 1½ 1½	
1 ½	0 09 W	+14 56	2-1	7.40	A_2	1½ 1½ 1½	
1 55	0 39 E	+30 00	2	6.34	B9	1½ 1½ 1½	control heater still behaving very badly
2 50	0 15 E	+30 35	2	6.88	A0	1½ 1½ 1½	seconds are missed very easily. Two more fresh
2 36 3	0 14 W	+41 06	3	6.63	A0	1½ 1½ 1½	batteries put in thermostat control clock

		H.T.A.	S.T.A.	M.W.	S.W.	Watch M.T.	Watch S.T.
June 16	10	-02ᵐ·7	-1ᵐ 05ˢ·1	—	-03ˢ·4	00ˢ·0	-0ˢ·1

New Batteries fixed K A

PLM

Date Wed June 16-17, 1937 H.d. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
-2060	HD 157482	17 18.4	40 05	I-12	Astra II	010	22.6	10 46	11 56
				Thursday - June 17-18,		M			
				Rain all day. Heavy mist all night.					

Thick haze after sunset. Slightly better 10.15.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
11.56	E 1^m	40 00	1	6.22	F_8	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	Worse again, thin haze ~~cut~~ 11.00 Thk 11.20 etc Margin of clearing. Closed 12.10.

	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθS.W.	Watch ΔθM.T.	Watch ΔθS.T.
June 17	10	$-02^s.9$	$-1^m\,05^s.4$	$-00^s.2$	$-02^s.0$	$-0^m.1$
June 18	10	$-03^s.0$	$-1\,05^s.7$	$+04^s.7$	$-02^s.4$	$-0^m.1$

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Date Friday June 18-19, 1937 14d - M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2061	HD 152877	16 51.0	28 17	I-12	Astra II	010	17.0	10 12	11 02	2
~~2062~~	" 152896	16 51.1	~~29~~ 28 12	"	"	"		11 04		
- 2062	Mars	15 7.7	-19 50	"	Astra IX	060L	17.0	12 01		1
									12 06	
- 2063	Mars	—	—	—	—	—	—	12 09		2
									12 14	
- 2064	Mars	—	—	—	—	—	—	12 15		3
									12 19	
- 2065	Mars.	—	—	—	—	—	—	12 25		4

Rain all day. Clearing gradually after sunset with N wind.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
E 20m	28 11	3.	7.40	F_0	1½, 1½, 1½	
Each setting	9/1	Plate setting	7.44	A_5	1½,	Stopped at 11 15 for Mars.
A	3 R	0	Telescope			Filter 38A on all Mars plates —
B	3 R	.5				sky 25 s
A	3 R	1.0				scale 15 R
B	3 R	1.5				rotating sector wedge 1205 with filter 35A.
A	2 R	2.0				setting on disk may be a trifle high.
B	2 R	2.5				setting C possibly low.
A	2 R	3.0				
B	2 R	3.5				
C	2 R	0				
B	2 R	.5				
C	2 R	1.0				
B	2 R	1.5				
C	3 R	2.0				
B	3 R	2.5				
C	3 R	3.0				
B	3 R	3.5				
A	5 R	0				
B	5 R	.5				
A	5 R	1.0				
B	5 R	1.5				
A	1 R	2.0				
B	1 R	2.5				
A	1 R	3.0				
B	1 R	3.5				
C	5 R	0				setting C possibly low.
B	5 R	0.5				
C	5 R	1.0				
B	5 R	1.5				

Date Friday June 18-19, 1937 Hd - M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2065 (cut)	Mars	15 7.7	-19 50	I - 12	Astro IX	.060	+17.0				
									12 30	4	
- 2066.	HD 169028	18 17.6	51 19	—	Astro II	.010	+16.8	12 55	1 38	3	
2067	" 196340	19 38.7	60 ~~27~~ 16	"	"	"	17.0	1 42	2 04	4	
2068	"	"	"	"	"	"	17.0	2 04	2 28	1	
2069	" 219634	23 12.2	61 25	"	E 40	"	17.3	2 33	3 43	2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		C 12	2:0			
		B 12	2:5			
12 3:	2 46 W	C 12	3:0			
		B 12	3:5			
1 3	0 50 E	51 17	4	7.32	K_2	1½, 1½, 1½
2	0 5 E	60 20	4	6.27	A_2	1½, 1½, 1½
2	W 20m	60 20	5	"	"	1½, 1½, 1½
3	2 00	61 35	4	6.44	B_8	3, 3, 3. c/bots 3m

Note: On Turning North, reversing etc. first of water came out of the mirror cell. Must have come from rain rather than condensation. Mirror wasonly slightly splashed. Should blower be put on to dry out cell?

d	h	M.T.A. s	S.T.A m s	S.W. s	M.T. (Watch) s	S.T. m
June 19	10	−03.8	−01 06.0	+09.4	−03.8	−0.1

Date Saturday, June 19-20 M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		
2070	HD. 157582	17 19.0	17 00	I-12	Astra II	.013	+21°.2	10 46	12 06	1	
2071	169491	18 19.8	15 36	—	—	.010	+21°.1	12 11	1 51	2	
2072	219634	23 12.2	61 25	—	E-40	.010	+20°.8	2 06	3 44	3	

Sunday, June 20-21, M

Cloudy in afternoon Cleared a little after sunset but still very hazy with lightning around horizon. Clouded over thick again shortly.

About 50 visitors - showed Moon and 5 Booths with 7¼" f-4
Moon and Mars with 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 20 W	+16 55	2	7.59	A0	1½ 1½ 1½	
1 51 2	1 04 W	+15 35	2-3	7.38	B9	1½ 1½ 1½	clouds low in south and rising E of 12.40
3 44 3	2 05 E	61 35	1	6.44	B8	3, 3, 3	to 0. for Xd. shots 3m

			M.T.A	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June	21	10	-04ˢ.4	-1ᵐ06ˢ.8	+17ˢ.8	-06ˢ.2	-0ᵐ.2

Date Thursday June 21-22, 1937, M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End	D
2073	H.D. 156341	17 11.9	16 47	I-12	astra II	.010	+23°1	9 04	10 56	1		
2074	169169	18 18.3	14 57	—	—	—	+22.5	11 02	1 44	2		
2075	191879	20 07.0	14 21	—	—	—	+22.7	1 48	3 38	3		

Cloudy in afternoon: long clouds after sunset. But gradually clearing.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	0 35 E	16 42	2-1	7.5	A0	1½ 1½ 1½	occasional clouds hiding image
14	1 06 W	14 56	2-1	7.40	A2	1½ 1½ 1½	thermostat relay a bit sticky. St. A clouds
3 38 3	1 12 W	14 25	1	7.48	A0	1½ 1½ 1½	clouds about steady till 12 h 30

		H.T.A.	S.T.A.	S.W.	Watch H.T.	Watch S.T.
June	22 10	-05ˢ.2	-1ᵐ07ˢ.2	+21ˢ.58	-07ˢ.3	-00ᵐ.2

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Date Tuesday, June 22-23, 1937 H-M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2075 F1	Focus test	(1937)	(1937)	I-12	Astra II	010	+19.7	8 20 p.m.			
- 2076	Mars	15 6.3	-19 51	—	Astra IX	.060	+19.7°	9 08	—	1	
								—	9 13		
- 2077	—	—	—	—	—	—	—	9 14	—	2	
								—	9 19		
- 2078	—	—	—	—	—	—	—	9 23	—	3	
								—	9 28		
- 2079	=	=	—	—	—	—	—	9 31	9 33	4	
	—							—	—		
HD 134759	ℓ Libræ	15 8.7	-19 33	—	—	—	—	9 35	9 37		
	Mars	15 6.3	-19 51	—	—	—	—	9 41	—		
	—	—	—	—	—	—	—	—	9 43		

Hour Angle End	Declination	Seeing	Ptg. Mag.	Exp	REMARKS
Centered this box on				12,7	From 26 20, Tilt 19.5
	A 0 plate	0	Eff 3 2		
	B .5		3 2	filter	Image very fuzzy - by this major
	A 1.0		3 2		clear in 4', sun -
	B 1.5		3 2	38A	Shots 25 sec
	A 2.0		10 2	small	Scale 15 sec
	B 2.5		10 2		Step wedge 120 sec with filter 38A.
	A 3.0		10 2	Mars	
	B 3.5		10 2	plate.	
	C 0		10 2		
	B .5		10 2		
	C 1.0		10 2		
	B 1.5		10 2		
	C 2.0		3 2		
	B 2.5		3 2		
	C 3.0		3 2		
	B 3.5		3 2		
	A 0		5 2		
	B				
	A				
	B 3.5		5 2		
	A -1.0		5 2		
	B -.5		5 2		
	A 0		10 2		
	B + .5		10 2		
	+ 1.0		40 2		
	+ 1.5	0	80 2	4.66 Aop	
	A + 2.0		5 2		
	B 2.5		5 2		
	A 3.0		10 2		
	B 3.5		10 2		

(cont'd)

Date Tuesday June 22-23 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2080	B.D. 151732	16 44.1	+42 26	I-12	astra II	.010	+19.7	9 53	11 13	1	
2081	152951	16 51.5	+46 41	"	"	"	+19.6	11 16	12 06	2	
2082	164898	17 58.3	+45 21	"	"	"	+19.7	12 09	1 29	3	
2083	197160	19 43.4	+44 05	"	"	"	+19.3	1 32	2 57	4	
2084	206280	21 36.0	+43 59	"	"	"	+19.7	3 00	3 50	5	

Evening Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
1	0 14 W	+42 20	C-1	7.50	M6	½	½ ½	Hazy period. Light clouds over region 10-20
	1 00 W	+46 36	1-2	6.77	A2	½	1½ ½	
	1 16 W	+45 19	1-2	7.42	B9	½	½ ½	
	0 59 W	+44 10	2-1	7.59	G0	½	½ ½	
	0 00	+44 07	2	6.70	B9	½	½	

		H.T.A	S.T.A.	S.W.	Watch H.T.	Watch S.T.
June 23	10	-05.8	-1m07.6	+26.2	-08.9s	-0.2m

Date Wednesday June 23-24 1937, M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2085	HD 157582	17 19.0	17 00	I-12	Ast. a II	1010_2	+22°.7	9 03	11 29	2	1 02 E
2086	169491	18 19.8	15 36	—	—	—	+22.0	11 31	1 01	3	1 29 W
~~2087~~	~~191671~~	~~20 6.0~~	~~27 58~~	—	—	—	+22.2	1 05		4	—

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg.	Mag.		REMARKS
11 29 12	0 02 E	+16 56	.2	7.59	A0	1½ 1½ 1½	Lost some time on this exposure getting reports on very bright meteor fell about 9.54. Drain to 11 inches at 9.30 made drawings, plotted globe and mail
1 01 3	0 29 W	+15 35	3	7.38	B9	1½ 1½ 1½	heavy mackerel sky filling in from NE just at start of exposure
		+28 03	3	7.5	B5	1½	getting steadily thicker closed at 1.50

		M.T.A.	S.T.A.	S.W	Watch M.T.	Watch S.T.
June 24	10	-06ˢ.4	-1ᵐ 08ˢ.1	+30.7	-10ˢ.6	-00ᵐ.3

Date Thursday June 24-25, 1937. H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2087	Focus Test			I-12	Astro II	010	Set +24.0	20 40		1	
—	H.D. 148 432	16 23.0	+76 22	"	"	"	+24.0	20 54	21 44		
2088	151 746	16 44.2	+74 05	"	"	"	+24.0	21 49	22 34	2	
2089	158 485	17 24.5	+68 44	"	"	"	+24.1	22 37	23 22	3	
2090	159 330	17 29.1	+57 57	"	"	"	+24.0	23 25	0 37	4	
2091	180 278	19 12.8	+59 31	"	"	"	+24.2	0 40	2 10	1	
—	~~203 551~~	~~21 17.8~~	~~+60 15~~	"	"	"				2	
2092	203 574	21 18.0	+60 21	"	"	"	+24.0	2 18	3 03	2	
2093	206 842	21 39.7	+58 48	"	"	"	+24.0	3 05	3 55	3	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	Outside this Group						Focus 26.20; 19.5" Tilt Light to Right at sunset; clear
	0 45 E	+76 19	1	6.98	A3	½ ½ ½	
	0 15 E	+24 02	1	6.82	A2	½ ½ ½	
	5 09 E	+54 44	1	6.58	A2	½ ½ ½	Haze.
	0 59 W	+57 57	1	7.57	K2	½ ½ ½	Haze
	0 51 W	+57 37	1-2	7.54	A3	½ ½ ½	Haze
				7.16	F5		
	0 22 E	+60 32	2	7.24	K0	½ ½ ½	Not able to show Tilt this curtain enough
	0 03 W	+59 01	2-3	7.28	K2	½ ½ ½	
							Difficult to judge exposures due to Haze

		H.T.A.	S.T.A.	S.W.	Watch M.S.	Watch S.T.
June 25	10	-07·2	-1 08·7	+37·3	-12·8 s	-0·3 m

2087 F. Center exposures on this and last focus plate used. Re-aligned arc carriers on last June 26th. Try to remedy this Wave to Low.

Date Friday, June 25-26, 1937 M-H Julian Day

Plate No.	Object	R.A. 1900 (1937)	Declination 1900 (1937)	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
-2094	Iris	15 5.7	-19 03	1.12	Ast a IV	.060 L	22°.7	10 20		1
									10 25	
-2095	—	—	—	—	—	—	—	10 30		2
									10 1X3	
-2096	—	—	—	—	—	—	—	10 41		3
									10 47	
-2097	—	—	—	—	—	—	—	10 50		4
									10 [illegible]	
2098	H.D 175785	18 51.9	30 11	—	Ast a IV	.010 L	22.7	11 33	12 59	1
2099	190537	20 00.3	30 57	—	—	—	22.7	1 03	1 57	2
2100	191671	20 06.0	27 58	—	—	—	22.7	2 02	3 40	3

Saturday June 26-27, 1937 - H.

Cloudy from sunset to 1:00 a.m. Breaking off

but at 1 again 2:00 a.m.

Built legs on Scope

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		5 and	2	one of us can't			Setting -1 to 3.5 Could just see [illegible]
		10 [illegible]					on all Mts the [illegible]
		10 and					Used filter 38A on all Mts [illegible]
		10 right on					
		7 and					
		10 extremes					
		50					
		200					[illegible]
		5 extremes					
12 9 1	0 03 W	30 11	2 - 3	7.31	A0	1½ 1½ 1½	
1 37	0 07 E	31 02	3	6.93	A2	1½ 1½ 1½	
3 4	1 31 W	28 02	2	7.5	B5	1½ 1½ 1½	
							Light clouds at times. Watch
							NTA STA SW MT ST
							June 26 d 10 h -07.0 s -01 m 09.4 s +42.6 s -14.0 s -0.4 m
	Mirr IV	shoot slides. H [illegible]					

Date Monday June 28-29, 1937 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
2101	Frame East			I-12	Ad. II	010	+24.8	20 20		4	
	HD 132445	14 54.1	+44 52	"	"	"	+25 0	20 53	21 48	4	
2102	151732	16 44.1	+42 36	"	"	"	+25.0	21 51	22 46	1	
2103	152153	16 46.6	+43 36	"	"	"	+24.9	22 48	23 53	2	
	~~162936~~	17 48.5	+32 02	"	"	"	"			3	
									"		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		
	C Fail thin bars		26.20 19.5	Four		12,7
21 49	1 01 W	+44 42	3-2-1	7.28	A2	1½ 1½ 1½
22 [illegible]	0 10 W	+ 42 20	1	7.50	Mb	1½ 1½ 1½
23 59	1 16 W	+ 43 31	1	7.37	K0	1½ 1½ 1½
				7.04	A0	

REMARKS

Watch

		M.T.A.	S.T.A.	S.W.	M.T.	S.T.
June 28	10	-08.9	-1 m 10.5 s	+55.7	-17.8	-13.5

Seeing determination very rapidly from start.

Clouds - stars last 23 25 - 23 40. Thick again 23 45

Completely cloudy 23 55 —

Closed 0 45 for fear of rain Watch 2.0 ST. (Reset)

	d	h	MTA	STA	SW	MT.
June 29		10	-9.5 s	-1 m 11.2 s	+60.8 s	-19.5 s — 1.0 m

2101 - [illegible] focus test appears on plate. Did not [illegible]?

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Date Tuesday June 29-30, 1937 M **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2104 F1				I-12	Kod. IIF	.010	+19.4		set 3	-	
	H.D. 156341	17 11 9	16 47	—	—	—	+19.3	21.20	23 40	3	
2105	17 8947	17 53	33 24	—	—	—	+19.3	23 4[illegible]	2 16	4	
2106	17 [illegible]	20 4[illegible]	[illegible] 00	—	—	—	+[illegible]	2 20	3 32	1	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		Dome outside				12 11	clouds formed in zenith just at dusk
3 41 3	0 40 W	+16 42	0	7.5	A0	1½ 1½ 1½	star could not be focused by [illegible] clear at 21.20
1 -	1 23 W	+30 25	0	6.66	B9	1½ 1½ 1½	image very weak
2 32	1 04 W	+46 06	0	6.63	A0	1½ 1½ 1½	clouds sliding image at 23.50 thick at 24.00 most clear again at 24.10 considerable thick at 24.50 clearing off thick [illegible]

thick clouds at 3.35.

			M.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
June	30	10	−10ˢ.8	−1ᵐ 12ˢ.2	+08ˢ.2	−21ˢ.2	−0ᵐ.9

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S-H-N

Date Wednesday June 30-July 1, 1937 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
2107	NGC 6205	16 39.3	+36 35	Newtonian	E 40			21 57	22 07	
2108	" 5904	15 15.1	+02 20					22 12	22 17	
2109	" 6218	16 43.8	-01 50					22 20	22 30	
2110	" 6254	16 53.6	-04 08					22 34	22 44	
2111	" 6402	17 34.1	-03 12					22 47	23 02	
2112	" 6779	19 14.0	+30 03					23 32	23 47	
2113	" 6366	17 24.1	-05 01					23 55	00 30	
2114	" 6402	17 34.1	-03 12					00 34	01 24	
2115	" 6402	17 34.1	-03 12					01 05	01 10	
2116	" 6934	20 31.9	+07 11					01 48	02 18	
2117	" 7089	21 29.9	-01 07					02 22	02 30	
	BSC 9213	21 34.2	-00 41					02 32	02 33	
2118	NGC 6205	16 39.3	+36 35					02 38	02 42	
2119	" 6760	19 07.7	+00 55					02 49	03 19	

Cloudy most of the day. Clearing [illegible] early morning.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 16 E		Variable		Focused on [illegible] T. - some clouds. H guiding
1 19 W				
0 04 W				
0 09 W				
0 04 W				← Pointed on B.S.C. 6512
1 02 E				
1 22 E				H guiding H
1 47 W				23h 23m 30s - [illegible]
1 22 W ✓				← Focus on B.S.C. 7801
0 [illegible] W				
0 [illegible] E				
				Told in [illegible] H.E.S.
4 30 W				Magnitudes
2 25 W				

	C.T.	ΔθM.T.A.	ΔθS.T.A.	ΔθS.W.	Watch ΔθM.T.	Watch S.T.
July	22	-11.6s	-1m 13.0s	+16.8s	-26.0s	-01.0m

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
			Thursday July		1-2	S-H-N			
	Newtonia				clouds much of day; clearing at				
			Friday July		2-3	S-H-N			
					clouds + heavy rain in day; thinning				
					Changed back to Cassegrain				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						July 2 10 M.T.A. -12.0 S.T.A. -1 13.2 S.W. +21.6 Watch M.T. -27.0 S.T. -04.0
	sunset, but cloudy by dark.		Cloudy all night.			
	early evening, but cloudy from dark on.					July 3d 10h Chronometer Watches stopped, reset. Watch
	session of 11h0m - 12h30m.					M.T.A. S.T.A. S.W. M.T. S.T.
						s m s s m
						-12.3 -01 13.7 +27.8 +12.2 -0.3

Date Sat July 3-4, 1937 Hd (MR) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Ent
2120	HD 157935	17 21.2	16 29	I-12	Astra II	010	21.3	10 11	10 57	3	+3m
2121	158251	17 23.1	16 32	"	"	"	21.3	10 59	11 53	4	+57m
2122	169028	18 17.6	51 18	"	"	"	21.5	11 58	12 48	1	+1m
2123	193472	20 15.3	13 14	"	"	"	21.5	12 53	1 23	2	+5m
2124	193555	20 15.7	15 13	"	"	"	21.2	1 26	2 16	3	+29m
2125	193556	20 15.7	14 16	"	"	"	21.1	2 19	3 07	4	+1h 22m
2126	212442	22 19.2	14 ~~17~~ 16	"	"	"	21.2	3 11	3 49	1	+5m

about 100 visitors. Showed 5 Cor Bor and a Herc with 74". RJN lectured. MR showed Or. Nb with 4".

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Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 3m	16 25	2→3	7.03	F_2	1½, 1½, 1½	
W 57m	16 29	2	7.44	F_0	1½, 1½, 1½	
W 1h	5 17	2	7.32	K_2	1½, 1½, 1½	
E 24m	13 18	2	6.10	A_5	1½, 1½, 1½	
W 29m	15 18	3	7.37	F_8	1½, 1½, 1½	
W 1h 20	14 21	3	7.12	G_5	1½, 1½, 1½	
E 2m	14 56	3	6.73	A_0	1½, 1½,	
						Clock control hopelessly bad
						Dome refusing to turn at frequently.

Date Sunday July 4-5/37 Y.-L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set					
2127	HD 154228	16 59.1	+13 44	I-17	Ashaii	010	+25.0	8 52	9 24	2	E
2128	"	"	"	"	"	"	+24.6	9 26	9 50	3	W
2129	HD 156653	17 13.7	17 26	"	"	"	24.0	9 58	10 30	4	E
2130	"	"	"	"	"	"	24.0	10 31	11 01	1	W
2131	HD 176003	18 53.0	+44 05	"	"	"	23.7	11 13	12 06	2	E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1h 03m E	13° 39'	1	5.86	A0	½ 1½ 1½	Rubbed mirror with absorpaint cotton - improved 20%
	37m W	"	1	"	"	1½ 1½ 1½	Tried rouge - very little help
	12m E	17 21	2	5.90	A0	1½ 1½ 1½	
	41m W	"	2	"	"	1½ 1½ 1½	
	16m E	44 07	2	7.00	A2	1½ 1½ 1½	Sky hazing up. Solid at 12.05

Monday. Mr Longwith cleaned contacts on dome turning relay.

Clock & Trak. Took off ruler for cams and made slope more gradual. Adjusted beat to middle of swing. Tightened toothed wheel spring some.

		M.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
July 5	10	-14.1	-1m 14.6	+08.8 Best	+08.3	-0m.2

Date Monday July 5-6, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle Int
2132	Focus test			I-12	Eastman II	5=7 0 10	5-7 +26.2	20 15		3	
	HD 151203	16 34.4	+43 46	"	"	"	26.1	20 50	21 40		1 HE
2133	152951	16 51.5	+46 41	"	"	"	26.1	21 42	22 17	4	1 HW
2134	164898	17 58.3	+45 21	"	"	"	26.0	22 19	23 29	1	1 HW
2135	163590	17 51.8	+32 28	"	"	"	26.3	23 32	0 27	2	1 HW
2136	169223	18 11.6	+16 38	"	"	"	26.0	0 30	1 15	3	1 HE
2137	176377	18 54.9	+30 02	"	"	"	26.0	1 18	2 03	4	1 HW
2138	198976	20 48.4	+29 17	"	"	"	26.2	2 09	2 54	1	1 HW
2139	209193	21 56.4	+30 57	"	"	"	26.3	2 59	3 50	2	1 HW

Ending Time E.S.T.	Hour Angle Knd	Declination	Seeing	Ptg. Mag.			REMARKS
	Outside	thru' base				12/7	Focus 26.20 Alt 19.5 Setting 3
	0 18 E	+43 42	2-3	7.21	A2	1½ 1½ 1½	Reset Sec drum.
	0 02 W	+46 38	2	6.77	A2	1½ 1½ 1½	
	0 07 W	+45 20	2	7.42	B9	1½ 1½ 1½	
	1 11 W	+32 26	2	7.20	A0	1½ 1½ 1½	
	1 32 W	+16 37	2-1	7.38	K0	1½ 1½ 1½	
	1 44 W	+30 05	2-1	7.11	G0	1½ 1½ 1½	
	0 41 W	+29 23	2	7.47	K2	1½ 1½ 1½	
	0 30 W	+31 08	2-1	7.32	F0	1½ 1½ 1½	
							Watch H.T. S.T. m +07.s0 −0.2
							July 6 12 H.T.A. −14.s7 S.T.A. −1m 15.s0 D.W. +10.2
							Plate

Date Sunday July 6-7, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2140	H.D. 135438	15 10.0	+32 09	I-12	Astr. II	010	+28.2	20 50	21 50	3	
2141	162936	17 48.5	+32 02	"	"	"	+28.4	21 53	22 53	4	
2142	165281	18 00.1	+30 24	"	"	"	+28.3	22 [illegible]	23 45	1	
2143	165008	17 59.8	+30 33	"	"	"	+28.0	23 47	0 37	2	
2144	180433	19 11.5	+30 ~~24~~ 21	"	"	"	+28.[illegible]	0 40	1 33	3	
2145	199102	20 49.8	+29 07	"	"	"	+28.3	1 37	2 52	4	X
2146	201939	21 07.7	+30 12	"	"	"	+28.2	2 55	3 50	1	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 19 W	+32 00	1	7.40	K5	1½ 1½ 1½	Stop wind of time.
	0 15 E	+32 00	1	7.04	A0	1½ 1½ 1½	
	0 25 W	+30 22	1-2	7.08	F5	1½ 1½ 1½	
	1 18 W	+30 33	2	7.10	F2	1½ 1½ 1½	
	1 01 W	+3 23	2	7.48	M0	1½ 1½ 1½	
	0 42 W	+29 14	2	7.54	B9	1½ 1½ 1½	
	1 17 W	+30 21	2	7.53	G5	1½ 1½ 1½	

		M.T.A.	S.T.A.	S.W.	Watch M.T.	S.T.
July 7	10	-15ˢ.2	-1ᵐ 15ˢ.4	+12ˢ.8	+04ˢ.6	-0ᵐ.3

Date Wed July 7-8 Y-mR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2147	HD 156653	17 13.7	+17 26	I-12	Astra II	.010	+30.0	8 46	" "	2	
2148	HD 166409	18 05.4	+44 06	"	"	"	+29.9	9 20	10 10	3	
2149	HD 162668	17 47.1	+30 01	"	"	"	+29.9	10 16	10 56	4	
2150	HD 179280	19 06.9	+31 28	"	"	"	+30 0	11 00	12 20	1	
2151	HD 192715	20 11.2	+15 00	"	"	"	+29.8	12 28	1 28	2	
2152	HD 197139	20 36.6	+43 ~~+13~~ 09	"	"	"	+29.8	1 37	2 45	3	
2153	HD 210387	22 05.0	+44 22	"	"	"	+29.8	2 51	3 45	2	

Thurs July 7/37 AM changed to I-25

2153F	Focus			I-25	Astra II	010	25.5			1	

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1h 20m E	17 24	3	5.90	A0	1½ 1½ 1½	
1 11m E	44 06	2	7.06	F5	1½ 1½ 1½	
8m E	30 00	2	6.74	A2	1½ 1½ 1½	
0 03m E	31 31	2	7.42	F0	1½ 1½ 1½	
0 00m E	15 07	2	7.19	F0	1½ 1½ 1½	
0h 53m W	43 13	2-1	7.15	K0	1½ 1½ 1½	
0h 24m W	44 32	2	6.72	A0	1½ 1½ 1½	

		M.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
July 8	10	-15.6s	-1m 15.9s	+13.9s	+02.1s	10h 13m

(I-12 focus was: Focus 26.20, Tilt 19.5')

outside this box

	setting	Focus
no filter	1	23.2
4/3	5	23 3
4/3	9	23 4

} Tilt 23.25

best focus is 23.25

Date Thurs July 8-9, 1937 Ad-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 2154	HD 145849	16 08.1	36 41	I-25	Astra II	010	31.0	8.45	9 51	1	4.31m
2155	HD 142926	15 52.2	42 51	"	"	"	31.0	9.56	10 42	2	4.17
2156	"	"	"	"	"	"	31.0	10 42	11 56	3	3.51
2157	HD 190603	20 00.7	31 56	"	"	"	31.2	12 09	12 51	4	2.32
2158	HD 198726	20 47.2	27 52	"	"	"	31 1	1 02	1 42	1	E. 1°
2159	HD 219634	23 12.2	61 25	"	"	"	30.7	1 56	3 06	2	E. 1°
2160	HD 5394 &C...	0 50.7	60 11	"	East. Pros	"	31.0	3h 13m 40s	3h 15m 40s	3	
								3 17 15	3 22 15		
								3 24 20	3 46 30		K. 3°

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
9 51	W 31m	36 35	2	6.86	K_5	4,4,+	Cas. focus reared to position; focus OK
10 47	W 1h 37	42 45	1	5.6	B_8	4,4,4	Hazy
11 51	W 2h 51	"	1	"	"	4,4,4	clouds most of time
12 51	E 0h 22m	31 03		5.45	B_0	4,4,4	"Fixed" focus by fiddling but it stopped
1 47	E 0h 17m	27 59		5.5→6.4	F8+	4,4,4	working again — 8 feb 45m
3 22	E 1h 17m	61 36	2	6.4	B_8	4,4,4	Focus final shelf — 8 feb 45m
3 36		60 22		2.01	B_0+	8,8	selling 1
3 44						8,8	" 5 — 8 feb 7m
3 46	E 2h 15m					8,8	" 9 clouds.

						M.W.	S.W.
July 9	10	-16·6	-1	16·4	+11·8	+01·5	-0·4

Date Fri July 9-10, 1937 HA-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
3161	HD 190603	20 00.7	31 46	I·25	Cramer	·010	25.8	12 06	1 06	1	
3162	HD 210334	22 04.6	15 15	"	"	"	25.9	1 16	* 3 15	2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 06	0 03 E	32 02	3	5.45	B0	4,4,4,	
* 3 5 2	0 01 W	45 26	3	7.30	G5	4,4,	* Off from 2.06 to 2.58

* At about 2 o'clock the dome refused to turn; checked dome turning switch (#7) fuses and trolley; Had to stop telescope at 2.06 to prevent it hitting platform. Called Dr Heard and he came up; fiddled with relays pushing them in and out a little bit (but not enough to make contact) and finally got them to work again. Reset on star at 2.58. Hd. went home and immediately without warning the power went off. Called Hydro and they didn't know when it would be on again. Gave up and closed shutter by hand.

4h 22m — power on again, closed completely

Date Sat July 10-11 1937 Hd-MK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2163	HD 142926	15 52.2	42 51	I-25	Astra II	010	30.2	10 54	11 55	1
			Changed to	I-12			ext focus	26.20 till	19.5	
2163F	focus			I-12	Astra II	010	30.0			1
2164	HD 201912	21 07.5	29 18	"	"	"	30.2	1.10.	2 40	1
2165	HD 219634	23 12.2	61 25	"	"	"	30.0	2 53		2
		Sunday, July 11-12, 1937				H				
		Cloudy with rain all night								

Thunderclouds in evening, 6 mi E (no change). Shewed Telescope. 250
Cleaning Mirror

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
						M.T.A. S.T.A S.W. Watch M.T. S.T$_{mu}$
2^h 59	4 – 46	1	5.6	B_8	4, 4, 4	July 10 12 -17^s.4 -1^m 16^s.5 +13.1 +0^s.2 -0^s.4
						Clouds – called end 11.40
House entered		setting	1		10/7	developed 216°F. Butter free would be 26.13 – not so,
0^h 28^m W	29 27	1	6.65	B_5	1½, 1½, 1½	hazy with occasional clouds spot 45°
6h 37			6.44	B_8	1½, 1, 1	closed up soon after start spot 45°
						3.30 hopeless · closed up

Date Monday July 12-13, 1937 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						set / cut				
2165	Focus test			I-12½	Astra II	010	+25.5	20 15		1
	-D 150203	16 34.4	+43 46	"	"	"	+25.3	20 45	21 45	
2166	152951	16 51.5	+46 41	"	"	"	+25.3	21 47	22 27	2
2167	164898	17 58.3	+45 21	"	"	"	+25.4	22 29	23 45	3
2168	171654	19 31.0	+46 08	"	"	"	+25.3	23 49	0 34	4
2169	172181	18 33.7	+43 08	"	"	"	+25.4	0 37	1 12	1
2170	187160	19 43.4	+44 05	"	"	"	+25.3	1 15	2 25	2
2171	201330	21 36.3	+42 49	"	"	"	+25.4	2 29	2 56	3
2172	217491	22 51.0	+44 50	"	"	"	+25.5	3 00	3 45	4
			Tues July 13/37		Hd-19K					
	Checked & cleaned arc			focusing device and slit						
2172T	Test for symmetry of arc			I-12	Astra II					

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Eyp	REMARKS
	Initials The	Focus				12,7	Focus 26.13 Tilt 19.5
	0 14 W	+43 41	1	7 21	A2	1½ 1½ 1½	Mirror supports + focus changing rapidly.
	0 37 W	+46 40	1-0	6 77	A2	1½ 1½ 1½	
	0 51 W	+45 21	1-2	7.42	B7	1½ 1½ 1½	
	1 07 W	+46 10	1-2	6 66	F0	1½ 1½ 1½	
	1 42 W	+43 10	1-2	6.40	A5	1½ 1½ 1½	Southern sky generaly hazy.
	1 45 W	+44 11	1-2	7.59	G0	1½ 1½ 1½	
	0 24 W	+42 58	1-2	6.53	K5	1½ 1½ 1½	
	0 07 E	+45 03	1-2	6.50	A2	1½ 1½ 1½	
							Placed a wad of paper between beater armature and core to limit depth of entrance into notches. Disk having effect of lengthening notches. Control guided perfectly in the manner for 12.00 until dawn. H L
	Touches on right side, setting		1			1½ 1½ 1½	
	" " " left "		" 4½			1½ 1½ 1½	
	" " in center		" 9			1½ 1½ 1½	
							N.B. Plates 2168 - 2172 have not been found.

Date Tuesday July 13-14 1937 H-K **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2173	Focus test			I-12	Astra II	set 010	set +24.5	20 30		1
	HD 148 432	16 23.0	+76 22	"	"	"	+24.5	20 48	21 48	
2174	151 746	16 44.2	+74 05	"	"	"	+24.6	21 51	22 41	2
2175	159 330	17 29.1	+57 57	"	"	"	+24.5	22 44	23 39	3
2176	HD 190 227	19 58.9	+31 40	"	"	"	+24.6	23 50	1 20	4
2177	HD 198 151	20 43.3	+46 10	"	"	"	+24.7	1 26	2 16	1
2178	HD 199 169	20 50.3	27 41	"	"	"	+24.5	2 22	3 22	2
	Wednesday July 14/37 H-K									
	Tests to determine elevation of comparison carriage									
2178T1				I-12	Astra II	010				2
2178T2				"	"	"				2
2178E		17 41.1	+74 41	"	"	"	26.13	19.1		

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	Guided by trees				12.7		From 26.13, dist 19.5
	0 34 W	+76 18	0-1	6.98	A3	1½ 1½ 1½	Sky mostly light?
	1 05 W	+74 00	1-2	6.82	A2	1½ 1½ 1½	
	1 17 W	+57 56	1-2	7.57	K2	1½ 1½ 1½	
	2.8^m W	+31 47	1	7.53	K0	1½ 1½ 1½	
	41^m W	+46 11	1	6.32	A2	1½ 1½ 1½	Sky Thickening
	1^h 39^m W	+31. 49	1	6.42	K5	1½ 1½ 1½	Thick

	M.T.A.	S.T.A.	S.W.	Watch M.T.	Watch S.T.
July 14, 16^h and 17^h:	−20^s.3	+1^m 36^s.0	+32^s.5	−05^s.5	−0^m.4

affects symmetry of comparison spectrum

setting		No. of threads above nut of raising & lowering screw
0	5	6
3	6	8
7	6	10
9	6	12
0	6	14
3	6	2
7	6	4
9	6	6
		9
		10

Results of Tests.

2, 4 and 6 Threads above etc, give perfect symmetry of comp. 4 and 6 give stronger spectra. Coll elevation at 5. Suggest 3 secs. would now be long enough comps.

Date Thursday July 15-16, 1937 Hd-MK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2179	HD 193472	20 15.3	13 14	I-12	Eastman II	0/0	25.4	12 35	1 35	1	[illegible]
2180	HD 201912	21 07.5	29 18	"	"	"	25.4	1 46	2 36	2	[illegible]
2181	HD 219634	23 12.2	61 25	"	"	"	25.9	2 57	3 32	3	[illegible]

Thundershower in evening
clearing about midnight

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 35	0 35 W	4 13 21	2	6.10	A_5	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	July 15 12 M.T.A. $-21^m 4^s$ S.T.A. $+1^m 40^s.2$ S.W. $+33^s.6$ (Watch) M.T. $+14^s.7$ S.T. $-0^m.3$ Reset
2 30 2	0 44 W	+29 28	2-3	6.65	B_6	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	R.A. setting will not work
3 32 3	0 24 E	+61 37	3	6.44	B_8	$1\frac{1}{2}, 1\frac{1}{2}, 1\frac{1}{2}$	Clock control will not work
							R.A. clamp will not work
							left telescope propped up

Date Friday July 16-17, 1937 Hd-1 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2182	HD 157741	17 20.0	15 43	I-12	Eastman II	010	27.5	8 43	9 23	4	1h8m
2183	154974	17 03.7	16 13	"	"	"	31.0!	9 32	10 22	1	-1
- 2184	169028	18 17.6	41 18	"	"	"	30.5 → 28.5	10 27	11.35 11.05	2	1m

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
E 38m	15 39	0→1	6.23	B_9	1½ 1½ 1½	Blew dc setting fuses. Are we out of 15 amp fuses again?
W 37m	16 10	2	7.17	F_8	1½ 1½ 1½	Heater relay stuck? Found door. Turned off switch
W 37m	51 20	3→0	7.32	K_2	1½ 1½ 1½	Good deal of cloudiness. Thick 11.30
						Thunderstorm coming. Closed.
						Clouds the rest of night
						New counterweight made for relay by I—
						put on
						Fuses in ord. box by pier 25 amps
		Sat July 17-18/37				About 4c variation. Showed
		Fd. 1¾.				moon. MR showed up with 4".
						Clouds 10.00 Closed 12.10.
						Cloudy all the rest of the night

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1937

Date July 18-19 Sunday Y-L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2185	H.D 154228	16 59.1	+13 44	I 12	Ord. II	Set 010	21.1	8 55	9 39	1
2186	H D 161695	17 41.9	31 33	"	"	"	20.9	9 43	10 20	2

Scd Time 0.5 Focal by det was Wheeler

Check Mean watch by comp. watch S.S.T. = 17 03 0 stand = 9h 34m 17s P.M.

Cor. M.W. = 0.8

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
9 1	6m W	+13 41	0	5.86	A0	1½ 1½ 1½	Hazy
2		31 31	0	6 23	B9	1½ 1½	Much interupted by clouds, shut off -
							closed 11ov standard.

Date Monday, July 19-20, 1937 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
2187	HD 158485	17 24.5	+59 44	I-12	Astro II	010	Set +23.5	20 40	21 15		3
2188	[illegible]	17 29.1	+57 57	"	"	"	+23.6	21 19	22 02		4
2189	164898	17 58.3	+45 21	"	"	"	+23.5	22 05	23 15		1
2190	180778	19 12.8	+59 31	"	"	"	+23.5	23 19	0 39		2
2191	197665	20 40.1	+76 29	"	"	"	+23.5	0 40	1 50		5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Lid Wind shift −0,5 by the sky.
	0 38 E	+ 58 43	2	6.58	A2	1½ 1½ 1½	Telescope E of pier 50 lb. ft. Dec circle ↑
	0 05 W	+ 57 56	2-3	7.57	K2	1½ 1½ 1½	
	0 48 W	+ 45 21	2-3	7.42	B9	1½ 1½ 1½	Fairly bright moonlit sky
	0 53 W	+ 59 35	2-3	7.54	A3	1½ 1½ 1½	
	0 47 W	+ 76 37	2-3	7.41	F2	1½ 1½ 1½	Heavy bank of clouds rising in Northern sky. Light clouds passing overhead. Star 147 Not gone at 150 — definite sign of clearing at E. Wind up.

Date Tuesday July 20-21, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2192	HD 150203	16 34.4 ~~42.0~~	+43 46	I-12	Ast. II	Slit .010	Slit +26.5	20 40	21 50	9	
2193	152951	16 51.5	+46 41	"	"	"	+26.5	21 54	22 39	1	
2194	164429	17 56.0	+45 28	"	"	"	+26.4	22 41	23 06	2	
2195	171654	18 31.0	+46 09	"	"	"	+26.7	23 08	23 46	3	
2196	172187	18 33.7	+43 08	"	"	"	+26.7	23 48	0 20	4	
2197	187160	18 43.9	+44 05	"	"	"	+26.7	0 24	1 34	1	
2198	[illegible]055	20 42.5	+31 15	"	"	"	+26.5	1 38	2 38	2	
2199	210599	22 06.3	+30 04	"	"	"	+26.6	2 41	3 12	3	
2200	211437	22 11.9	+27 18	"	"	"	+26.7	3 15	4 05	4	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 50 W	+43 42	1-2	7.21	A2	1½ 1½ ½	
	1 23 W	+46 38	1-2	6.77	A2	1½ 1½ 1½	
	0 45 W	+45 38	2	6.20	B9	1½ 1½ 1½	
	0 50 W	+46 10	2-3	6.66	A0	1½ 1½ 1½	
	1 21 W	+43 10	2-3	6.40	A5	1½ 1½ 1½	
	1 [illegible] W	+[illegible] 11	2-3	7.59	G0	1½ 1½ 1½	
	1 [illegible] W	+31 22	2-3	7.04	A5	1½ 1½ 1½	
	0 41 W	+30 14	2-3	6.56	A5	1½ 1½ 1½	
	1 28 W	+27 25	2-3	7.73	K0	1½ 1½ 1½	
							20[50] [illegible] N of [illegible].

Date Wednesday July 21-22 Y-8 Nr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						Set					
2201	HD 154228	16 59.1	+13 44	I-12	Astro II	010	+26.6	8 38	9 08	1	E
2202	HD 163075	17 49.2	+46 41	"	"	"	+26.5	9 14	10 24	2	W
2203	HD 179280	19 06.9	+31 28	"	"	"	+26.8	10 31	11 41	3	W
2204	HD 189013	19 52.9	+46 50	"	"	"	+26.5	11 46	12 40	4	W
2205	HD 197139	20 36.6	+43 05	"	"	"	+26.8	12 48	1 48	1	N
2206	HD 210387	22 05.0	+44 22	"	"	"	+26.5	1 54	2 44	2	W
2207	HD 218043	22 59.8	+30 45	"	"	"	+26.7	2 50	3 56	3	W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	13m E	+13 41	2	+5.86	A0	1½1½1½	July 21 ΔΘ Watch MT +0s.9 S.T -0m6
	14m W	+46 40	3	7.57	K0	1½1½1½	numbered on plate 2201 by mistake
	13m W	+31 31	3-2	7.42	F0	1½1½1½	
	26m W	+46 56	2	6.90	A2	1½1½1½	aurora
	51m W	+43 13	2	7.15	K0	1½1½1½	
	18m W	+44 33	2	6.72	A0	1½1½1½	
	35m W	+30 58	2	7.12	F2	1½1½1½	one large

Watch

	d	h	MTA s	STA m s	GW	MT s	ST m
July 22		10	-27.0	+5 47.7	+46.2	+0.5	-0.5

Date Thursday July 22-23/37 Hd-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2208	HD 199311	20 51.3	45 51	I-12	Extra II	010	25.3	11 52	12 32	1	1°36 E
2209	HD 199479	20 52.4	43 59	"	"	"	25.4	12 35	1 05	2	1°05 E
22 10	HD 199511	20 52.6	43 02	"	"	"	25.4	1 09	1 49	3	0°40 W
22 11	HD 212442	22 19.2	14 46	"	"	"	25.4	1 56	2 50	1	1°14 W
22 12	HD 219634	23 12.2	61 25	"	E 40	"	25.2	3 02	4 12	4	2°44 W

Thunderstorm in evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
12 42	0h 36m E	+46° 00	4	6.66	A_0 1½, 1½, 1½	3 foils, 45'
1 05	0 05 E	+44 07	5	6.66	B_0 1½, 1½, 1½	3 foils, 45'
1 29	0 40 W	+43 11	4	6.74	B_8 1½, 1½, 1½	3 foils, 45'
2 50	0 14 W	+14 58	3	6.73	A_0 1½, 1½, 1½	clouds, 10 min. 3 foils, 45'
4 12	0 44 W	+61 37	4	6.44	B_8 3, 3, 3	3 foils, 45' water

		MTA	STA		SW	MT	ST
	d h	s	m s			s	m
July 23	10	-27.5	405	+8.3	+49.8	00.0	-0.5

Date Friday July 23-24, 1937 Hd-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
- 2213	HD 169028	18 17.6	51 18	I-12	Extra II	010	27.3	10 09	11 09	2	1h 29m
2214	" 193555	20 15.7	15 13	"	"	"	27.3	11 15	12 15	3	1h 15m
2215	" 193556	20 15.7	14 16	"	"	"	27.3	12 17	1 07	4	W 38m

Cloudy variable

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	W 38m	51 20	1	7.32	K_2	1½, 1½, 1½	
[illegible]	E 15m	15 20	2	7.37	F_8	1½, 1½, 1½	
1 07	W 38m	14 22	2	7.12	G_5	1½, 1½, 1½	clouds at 1 10 thick at 2 00 ; rain

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Date Sat July 24-25, 1937 Hd. MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2216	AD 180216	19 10.6	16 01	I-72	Eastman II	010	23.7	10 27	11 27	1	5° W
2217	" 182239	19 18.6	14 44	"	"	"	23.7	11 30	12 30	2	2° W
2218	" 201912	21 07.5	29 18	"	"	"	23.7	12 36	1 36	3	19° W
		Sunday July 25-26			Cloudy with clear intervals			Hd.			
		Mon. July 26-27			Cloudy			Hd.			

about 50 readings. Showed at Harv. M13. MR showed CH ↗ west. 272
4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
11 27 1	4h 6m W	16 05	2	7.14	A_2	1½, 1½, 1½	Hazy
12 30 2	1h 02m W	14 48	3	6.64	A_3	1½, 1½, 1½	very hazy
1 K 3	0h 19m W	29 28	3	6.65	B_5	1½, 1½, 1½	closed up: power going off at 2 0-0. hazy & cloud anyway
							Cas focuser not working at times
							Block control " " " all watch

		MTA	STA	SW	MT	ST
		s	m s	s	s	m
July 26	10h	-30.0	+6 06.9	+66.4	-03.5	-1.4

Date Tues July 27-28, 1937 Hel-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2219	HD 190603	20 00.7	31 56	I-12	Eastman II	010	16.2	11 13	11 27	1	-3 12 m
2220	HD 191745	20 06.4	29 04	"	"	"	16.3	11 30	1 35	2	1 3 11
2221	208394	21 50.9	47 44	"	"	"	16.3	1 44	3 14	3	: :
2222	219675	23 12.6	17 45	"	"	"	16.3	3 19	4 09	4	: :

Wed., July 28-29, 1937 Y-MR
cloudy in evening. clear at 1 for about an hour
thick the rest of the night

Thick cirrus. Clear at 11 00

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	E 31 m	32 02	4	5.45	B_0	1½, 1½, 1½	
	1 31 W	29 10	3-2	7.42	B_9	1½, 1½, 1½	Some clouds. Clouds from 12 30 - 1.00
	1 2[illegible] W	47 54	3-2	7.41	A_2	1½ - 1½ - 1½	
	1 [illegible]0 W	17 57	3-2	6.99	F_0	1½ - 1½ - 1½	Light clouds at end of eve.

	MTA	STA	SW	MT	Watch ST
July 28d 10h	−31.0s	+46.0s	+68.0s	−05.5s	−0.6m
			STA reset.		
July 29d 10h	−31.5s	+46.0s	+70.0s	−06.0s	−0.7m

Date Thursday July 29-30, 1937 H-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2223	H.D. 206280	21 36.0	Δ3 59	I-12½	Astra II	.010	21.6	12.55	1 45	1	E 20 W
2224	H.D. 206330	21 36.3	42 49	"	"	"	21.3	1 52	2 26	2	1 00 W
2225	H.D. 216511	22 48.4	46 01	"	"	"	21.4	2 35	3 25	3	E 47 W
2226	H.D. 2767	00 26.1	33 02	"	"	"	21.3	3 30	4 20	4	0 04 W

clouds & rain at 9; unsettled later, clearing about midnight

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 45	0 20 W	44 09	2	6.68	B9	1½, 1½, 1½	
2 26	1 00 W	43 00	2	6.53	K5	1½, 1½, 1½	intermittent clouds near end
3 25	0 47 W	46 13	2	6.68	B9	1½, 1½, 1½	occasional clouds
4 20	0 04 W	33 13	2	7.08	K0	1½, 1½, 1½	

spot 45s
spot 45s
spot 45s
spot 45s
wind

d	h	MTA s	STA s	SW s	MT s	ST m
July 30	10	-32.0	+46.4	+72.4	-07.0	-0.6

Date Friday July 30-31, 1937 H-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2227	HD 161797	17 42.5	+27 47	I-12	Astro II	.010	Set 24.0	20 28	21 43	1	
	From list							20 00			
2228	HD. 162555	17 46.5	+29 21	"	"	"	24.0	20 46	21 10	2	
2229	162936	17 48.5	+32 02	"	"	"	23.8	21 12	22 17	3	
2230	180450	19 11.5	+30 21	"	"	"	24.0	22 20	23 10	4	
2231	197665	20 40.1	+76 29	"	"	"	24.0	23 38	1 13	1	
2232	204889	21 26.5	+61 09	"	"	"	23.7	1 17	2 37	2	
2233	370	00 03.3	+73 41	"	"	"	*	2 45	4 20	3	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 45 E	+27 46	0-1	4.26	G5	1½ 1½ 1½	Light clouds just at dusk. Star [illegible] minute spot 45°
0 23 E	+29 20	1	6.61	K0	1½ 1½ 1½	
0 43 W	+32 02	1-2	7.04	A0	1½ 1½ 1½	
0 12 W	+30 26	1-2	7.48	[illegible]	1½ 1½ 1½	
						Power [illegible] + several [illegible] 1951. Offset must be [illegible]
0 41 W	+76 38	2-3	7.41	F2	1½ 1½ 1½	Power off about 4 min to at [illegible]
1 25 W	+61 12	2-3	7.53	F5	1½ 1½ 1½	
0 31 W	+73 53	2	7.42	A0	1½ 1½ 1½	* relay in dark-room became stuck

temperature at 3 35 was 20.3
3 45 " 20.5
3 55 " 21.2
4 05 " 22.0
4 15 " 23.0

[illegible] relay, cut to [illegible] and replaced with light. Applied [illegible]

Date Saturday, July 31 - August 1, 1937 H.M. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2234	HD 168271	18 13.8	+12 56	I-12	4 c.t. II	010	21.0	22 34	23 16	2
2235	187981	19 47.8	+30 58	"	"	"	21.1	23 19	0 19	3
2236	197937	20 54.6	+21 15	"	"	"	20.9	0 21	1 33	4
2237	209517	21 58.7	+29 33	"	"	"	21.0	1 35	2 55	1
2238	1641	00 15.6	+32 25	"	"	"	21.1	3 00	4 10	2

About 160 ± visitors (125+ [illegible]
Mound. M13 with 74", M[illegible]
Comet Finsler 1937 with 4".

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	7-½ in. Ref. :-	J. A. Partridge, Normal School, Hamilton.				
1 20 W	+ 12 58	1	6.54	B9	1½ 1½ 1½	
0 53 W	+ 31 00	1-2	7.08	A5	1½ 1½ 1½	
1 00 W	+ 31 24	2-3	7.15	B9	1½ 1½ 1½	
1 14 W	+ 29 44	2-3	7.37	B9	1½ 1½ 1½	
0 13 W	+ 32 37	3	7.40	F5	1½ 1½ 1½	Push left dec guiding button and R.A. setting motor goes, as if you were pushing right hand button

Date Sun Aug 1-2 1937 Hd L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		
2239	HD 157741	17 20.0	15 43	I-12	Astra II	010	22.3	8 38 (9.40)	10 16	1	
2240	" 169028	18 17.6	51 18	"	"	"	22.1	10 21	11 13	2	
2241	" 189689	19 56.2	32 31	"	"	"	22.2	11 22	12 22	3	
2242	" 194012	20 18.2	14 13	"	"	"	22.3	12 27	1 02	4	
2243	" 205939	21 33.6	44 14	"	"	"	22.1	1 07	1 37	1	
2244	" 212500	22 19.6	15 48	"	"	"	22.3	1 42	3 02	2	
2245	" 219110	23 06.3	28 54	"	"	"	22.3	3 05	4 05	3	

Found dec guiding tubes blown. Put some from end bldg. Only 3 left!

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 1h 17	45 40	1	6.23	Bg	1½, 1½, 1½	Clouds from 8.45 – 9.46 Guiding stars 7.46
W 1h 18	51 19	2	7.32	Kz	1½, 1½, 1½	Guiding dec. with setting motions account of "Nº Rise effect"
0 48 W		2	7.19	Bg	1½, 1½, 1½	Dec guiding tubes gone again Only 1 left!
1 06 W	14 21	2	6.64	F5	1½-1½-1½	
0 56 W	44 25	2	6.19	A3	1½-1½-1½	
1 05 W	15 58	2-1	7.41	F2	1½-1½ 1½	
1 19 W	29 06	2-1	7.34	K0	1½-1½-1½	No spots on 2239 + 2240
						At 11.34 observed very bright auroral band about 1° wide and 120° long running E.W thro α Peg and β and γ Agrae to about 5° S of zenith. Weakened and moved S and disappeared about 11.40 streamers in N also very brilliant.
						Checked hand switch, in working order Longcope

Date Monday August 2-3, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2246	[illegible]			I-12	Astra II	010	Sat 25°	20^00		4	
	HD 154494	17 ~~02.3~~ 00.7	+12 58	"	"	"	26.0	~~20^42~~ 20^[illegible]	21^17		
2247	163993	17 53.9	+29 16	"	"	"	25.8	21^20	21^36	1	
2248	164136	17 54.7	+30 11	"	"	"	25.6	21^38	21^56	2	
2249	165003	17 58.2	+30 33	"	"	"	25.8	21^58	23^13	3	
2250	169613	19 55.8	+31 32	"	"	"	25.6	23^15	0^10	4	
2251	200877	21 01.1	+14 56	"	"	"	25.6	0^14	1^14	1	
2252	201196	21 02.4	+15 16	"	"	"	25.6	1^16	2^16	2	
2253	218742	23 05.7	+17 03	"	"	"	25.3	2^20	3^00	3	
2254	1632	00 15.5	+32 21	"	"	"	25.4	3^04	3^44	4	
	2767	00 26.1	+33 02	"	"	"		3^47		1	

Sidereal head of thermopen watch not running

Cirrus clouds coming over at moment.

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Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	outside	thin haze				12/7	
	0 42 W	+12 48	1	4.99	A3	1½ 1½ 1½	For third at start. Shining + started again 20 V2
	0 08 W	+29 15	0	4.82	K0	1½ 1½ 1½	Very sharp
	0 27 W	+30 12	0-1	4.74	F0	1½ 1½ 1½	Light haze
	1 40 W	+30 34	1-2	7.10	F2	1½ 1½ 1½	
	0 40 W	+31 40	1-2	6.69	A0	1½ 1½ 1½	
	0 39 W	+15 04	2	7.04	F5	1½-1½-1½	
	1 39 W	+15 25	2	7.62	K0	1½-1½-1½	
	0 20 W	+17 16	2	7.12	K5	1½-1½-1½	
	0 05 E	+32 34	2	7.15	K5	1½-1½ 1½	
			2	7.08	K5	1½	Sky folded in at 4.00

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Date Tuesday, Aug 3-4, 1937, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
		(1937)	(1937)								
- 2255	Mars.	15 40.0	-22 22	I - 12	Astra IIB	.060 L	24°3	21 25	—	3	
							—				
							-	—	21 37		
- 2256	Mars	—	—	—	—	—	=	21 38	—	4	
							-	—	21 54		
2257	HD. 176938	18 57.5	29 23	—	Astra II	.010 L	24°0	22 20	23 22	2	
2258	190537	20 00.3	30 57	—	—	—	24.0	23 26	[illegible]	3	
	204205	21 56.5	31 03	"	"	"				4	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
setting or hours	Exp / Plate	setting				Clouds at sunset. Cleared later. Revised latitude for last trip at Mars. Final values and measurements of trip well down in log.
A	60 2	.5				
B	60	1.0				
A	60	1.5	used filter			
B	60	2.0	38A			
A	60	2.5				
B	60	3.0				
A	60	3.5				
B	60	4.0				
	A 150 R	0.0				
	B 150	0.5				
	A 150	1.0				
	B 150	1.5				
2 45 W	A 150	2.0				
0 55 W	29 26	2	6.64	A0	1½, 1½, 1½	Still quite hazy
1 05 W	31 03	2	6.93	A2	1½, 1½, 1½	"
			7.49	A0		

	MTA	STA	SW√	Watch MT	Watch ST.
	d h	s	s	s	m
Aug 4	10	-35.0	+44.4	-22.6	-11.5	+0.3

SW + Strong Chron. rate.

Date Wednesday August 4-5, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2259	HD 162555	17 46.5	+29 21	I-12	Ast. II	010	24.9	20 46	21 46	4	
								cloudy			
2260	199847	19 57.1	+30 57	"	"	"	24.6	23 48	1 05	1	
2261	206330	21 36.3	+42 47	"	"	"	24.5	1 20	1 40		
2262	217491	22 56.0	+44 50	"	"	"	24.3	1 43	2 15	5	
2263	217754	22 57.5	+31 14	"	"	"	*26.2	2 20	2 55	4	
2264	2666	00 25.2	131 38	"	"	"	25.7	3 00	4 10	1	

Cloudy all day: Snow at summit.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 33 W	+29 20	3	6.61	K0	1½ 1½ 1½	Filled in just as temp was going up. Temp [illegible]
1 45 W	+31 04	3	6.66	B8	1½-1½-1½	Intermittent clouds. Haze. Sky thickening
0 18 W	+42 59	3	6.53	K5	1½-1½-1½	Clear off again.
0 07 E	+45 03	3	6.58	A2	1½-1½-1½	
0 31 W	+31 26	3	6.74	F0	1½-1½-1½	* Roby stuck sending temperature up opened door and allowed air to circulate bringing temperature down
0 24 W	+31 49	3	7.99	F5	1½-1½-1½	

	d	h	MTA s	STA s	SW s	MT s	ST m
						10 o'clock	
Aug 5		10	-35.5	+44.4	-20.6	-12.0	+0.3

Date Thursday August 5-6, 1937 H-MR Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2265	HD 198820	20 47.9	+32 28	I-12	A.T. II	0.10	25.6	0 05	0 35	2	
2266	HD 204809	21 26.5	+61 00	"	"	"	25.6	0 44	1 45	3	
2267	HD 216511	22 48.4	+44 01	"	"	"	25.3	1 53	2 30	4	
2268	HD 221237	23 25.2	+58 01	"	"	"	25.2	2 39	2 59	1	
2269	HD 2767	00 26.1	+33 02	"	"	"	25.5	3 04	3 40	2	
2270	HD 6475	01 00.7	+59 20	"	"	"	25.5	3 45	4 25	3	

Friday, August 6-7, 1937 Hd-MR - Thunderstorm;

Saturday, Aug 7-8, 1937, M-MR Heavy clouds

L + H afternoon + first half of night reversing Declination
Quick motion clamps, which last jammed + sprung.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 25 W	32 37	2-3	6.23	B_5	1, 1, 1	
1 00 W	61 09	3-4	7.53	F_5	1½, 1½, 1½	
0 20 W	46 13	3	6.68	B_9	1½, 1½, 1½	
0 11 W	58 12	3	7.06	A_0	1½, 1½, 1½	star seems much brighter than 3m ⊙ HD. 231253
0 09 E	33 13	3	7.08	K_0	1½, 1½, 1½	
0 02 W	59 31	3	6.78	A_0	1½, 1½, 1½	

Watch

	h	m	MTA s	STA s	SW s	MT s	ST m
Aug 6	10		-36.5	+1440	-16.5	-12.5	+0.3

both watches stopped; reset.

in and clouds all night

About 100 visitors showed telescope, gave lecture.
clear about 2, then clouds the rest of the night

Date Sunday August 8-9 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Sect.				
2271	HD 162936	17 48.5	+32 02	I-12	Astr. II	010	25.7	20 27	21 37	4
2272	165281	18 00.1	+30 24	"	"	"	25.9	21 40	22 35	1
2273	187981	19 47.8	+32 53	"	"	"	25.6	22 38	0 22	2
	199837	20 54.6	+31 15	"	"	"				

Monday - Aug 9-10, M-MR, rain in evening, thick

Tuesday - Aug 10-11, M-MR, thick

Cloudy + showers during day. Sky thinning from west on.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 37 W	+32 02	2-3	7.04	A0	1, 1, 1	Still pretty thick at start. Seeing.
	1 24 W	+30 24	3	7.08	F5	1, 1, 1	Some haze.
	1 21 W	+30 59	3	7.08	A5	1. 1. 1	Heavy ground fog. Some clouds. Thick 23^{10}—2^{25}
				7.15	B9		Clearing at 0.20. Most of clearing & clear at 1.20

Watch

	MTA	STA	SW	WT	ST.
Aug 9 $^{d}10^{h}$	$-44.^{s}0$	$+44.^{s}2$	$-05.^{s}2$	$-41.^{s}0$	$-0.^{m}1$
Aug 11 $^{d}10^{h}$	-46.5	$+43.9$	$-21.^{s}1$	$-28.^{s}0$	$+0.^{m}6$

watches reset.

H-L

Date Wednesday, August 11-12, 1937 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
2274	HD 195830	20 47.9	+32 28	I-12½	Agfa U	2nd 010	-26.1	23 28	0 05		3
2275	199.01	20 49.8	+33 03	"	"	"	+26.1	0 05	0 40		4
	210.1+	20 [illegible]	+30 04	"	"	"	+25.7	0 44	[illegible]		1
2276	1606	20 18.2	+30 23	"	"	"	+26.7	2 33	3 [illegible]		2

Cloudy with showers during day + evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
h m	C 17 W	+32 37	1-2	6.23	35	1 1 1	22 pairs 30 Rs with.
"	9 53 W	+33 12	1-2	6.75	K_2	1-1-1	
		+30 14	1-2	6.52	A_5	1-	sky slowly filling in; thick at 1.15
	6 54 E	+30 36	1-2	5.77	B_8	1-1-1	partially clearing at 1.5 but soon fog filling in again by 3.0: Closed up at 3.1

watch

	d	h	MT A. s	STA. s	SW s	NT s	ST. m
Aug 12		10	-40.0	+43.6	-22.4	-30.5	+0.6

Date Thursday August 12-13, 1932 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						Set	Set			
2277	HD 164429	17 56.0	+45 28	I-12	Ast. II	010	22.3	20 54	21 20	3
2278	169223	18 18.6	+16 38	"	"	"	22.5	21 24	22 14	4
2278a	187160	19 43.4	+44 25	"	"	"	22.4	22 15		1
2279	199140	20 50.1	+28 08	"	"	"	22.3	23 47	0 12	3
2280	201939	21 07.7	+30 12	"	"	"	22.4	0 14	1 14	3
2281	216511	22 48.4	+46 01	"	"	"	22.3	1 28	2 13	4
2282	218035	23 01.3	+41 59	"	"	"	22.4	2 15	2 40	1
2283	1641	00 15.6	+32 25	"	"	"	22.4	3 17	4 11	3

Clouds north of Leo; clearing at end.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
0 29 W	+45 30	2	6.20	B7	1, 1, 1	Started 1 hr late from 9h 2 m until
0 30 W	+16 39	2-1	7.38	K0	1, 1, 1	
	+44 12	2-1	7.59	G0	1.	Clouds up at 10:30
0 22 W	+28 17	2-1	6.27	B3	1, 1, 1	
1 22 W	+30 22	2-1	7.53	G5	1, 1, 1	
0 30 W	+44 13	2-1	6.58	B9	1. 1. 1	
0 54 W	+18 .1	2-1	6.78	F2	1. 1. 1	
1 04 W	+32 38	2-1	7.40	F5	1. 1. 1	

Date Fri Aug 13-14, 1937 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
2284	HD 167134	18 08.8	16 14	I-12	Extra R	010	22.0	8 10	9 10	3	
2284	HD 182239	19 18.6	14 44	I-12	"	010	21.8	9 23	10 07	4	
2285	HD 191745	20 06.4	-9 04	"	"	"	22.0	10 11	11 51	1	
2286	" 201194	21 02.9	+30 12	"	"	"	21.8	11 35	12 56	2	
2287	" 220091	23 15.9	+16 43	"	"	"	21.9	1 02	1 52	3	
2288	" 221115	23 24.1	+12 13	"	"	"	22.0	1 55	2 10	4	
2289	" 1662	00 15.7	+12 13	"	"	"	21.9	2 12	3 45	1	
2290	" 8126	01 13.6	+28 13	"	"	"	21.9	3 49	4.29	2	

Incoming Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
3 03	—	16 15		7.14	F_5	1½, 1½, 1½	wrong star, omit
3 07 4	3m E	14 48	1	6.64	A_2	1½, 1½, 1½	
1	0 37 W	29 10	1	7.42	B9	1½ 1½ 1½	
1	1 00 W	+ 30 25	1	7 46	B8	1. 1. 1	
1	0 15 E	+ 16 55	1	6.83	F_0	1. 1. 1	
1	0 05 E	+ 12 25	1	5.67	K_0	1. 1 1	
1	0 31 W	+ 12 25	1	7.51	A_3	1. 1. 1	
4 11	0 23 W	+ 28 35	1	6.60	K_0	1. 1. 1	

Date Saturday, Aug 14-15, 1937 M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2291	HD 215242	22 38.7	46 38	I-12	Astra II	.010	+21°0	12 07	12 45	3
2292	" 217477	22 55.4	30 33	"	"	"	+21°0	1 56	2 38	1

about 60 visitors – showed Her – M13 with 74"
" Finlay Comet – Moon with 2"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Hand Mir	REMARKS
							Hunted for Lofthan object in Auriga Set with 74" finder. Co-ordinates 9h 50.0m +69° 23'
1h 3	40 E	46 51	2	6.40	B9	1½, 1½, 1½	Checked exactly with M81.
1h 4	5 W	30 45	2-1	6.52	A0	1½ 1½ 1½	Sky hazing up at 12.50, thick at 1h 1m Sky thickening again to end of Exp.
							Closed at 3.00

Date Sunday August 15-16, 1937 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
2293	Jupiter Set			I-12	[illegible]	Int 010	Set 26.5	19 05		
	HD 161797	17 42 5	+27 47	"	"	"	26.7	20 07	20 14	
2294	1-3590	17 51.8	+32 28	"	"	"	26.8	20 17	21 22	2
2295	165009	17 58.8	+30 33	"	"	"	26.7	21 24	22 24	3
2296	199613	19 58.8	+31 33	"	"	"	26.6	22 27	23 27	1
2297	199102	20 49.8	+29 07	"	"	"	26.4	23 30	00 30	1
2298	[illegible]	22 05.5	[illegible]	"	"	"	26.4	00 34	1 34	2
2299	[illegible]	00 25.2	+31 39	"	"	"	26.3	1 33	3 01	1
2300	2767	00 26.1	+33 02	"	"	"	26.1	3 03	3 34	4
2301	6941	01 23.0	+16 34	"	"	"	26.1	3 44	4 44	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	[illegible]	[illegible]				12/7	[illegible]
	0 12 E	+27 46	3	4.26	G5	1, 1, 1	Light clouds.
	0 48 W	+32 27	2-3	7.20	[illegible]	1, 1, 1	Light haze
	1 12 W	+30 33	2-3	7.10	F_2	1, 1, 1	Light haze
	0 28 W	+31 40	3	6.67	[illegible]	1, 1, 1	
	0 17 W	+29 16	3	7.54	[illegible]	1, 1, 1	
		+14 9	3	7.41	[illegible]	1, 1, 1	
	0 01 E	+31 50	3	7.41	F_5	1, 1, 1	
	0 30 W	+33 15	3	7.08	K_0	1, 1, 1	
	0 38 W	+16 45	3	7.17	F_5	1, 1, 1	

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

...ime	Ending Time E.S.T.